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No. 6051 117th Year FRIDAY, MARCH 20, 1959 ONE SHILLING AND SIXPENCE

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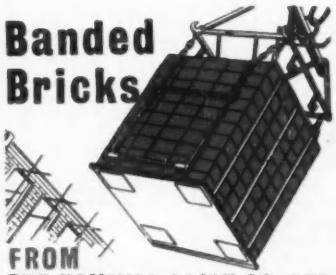

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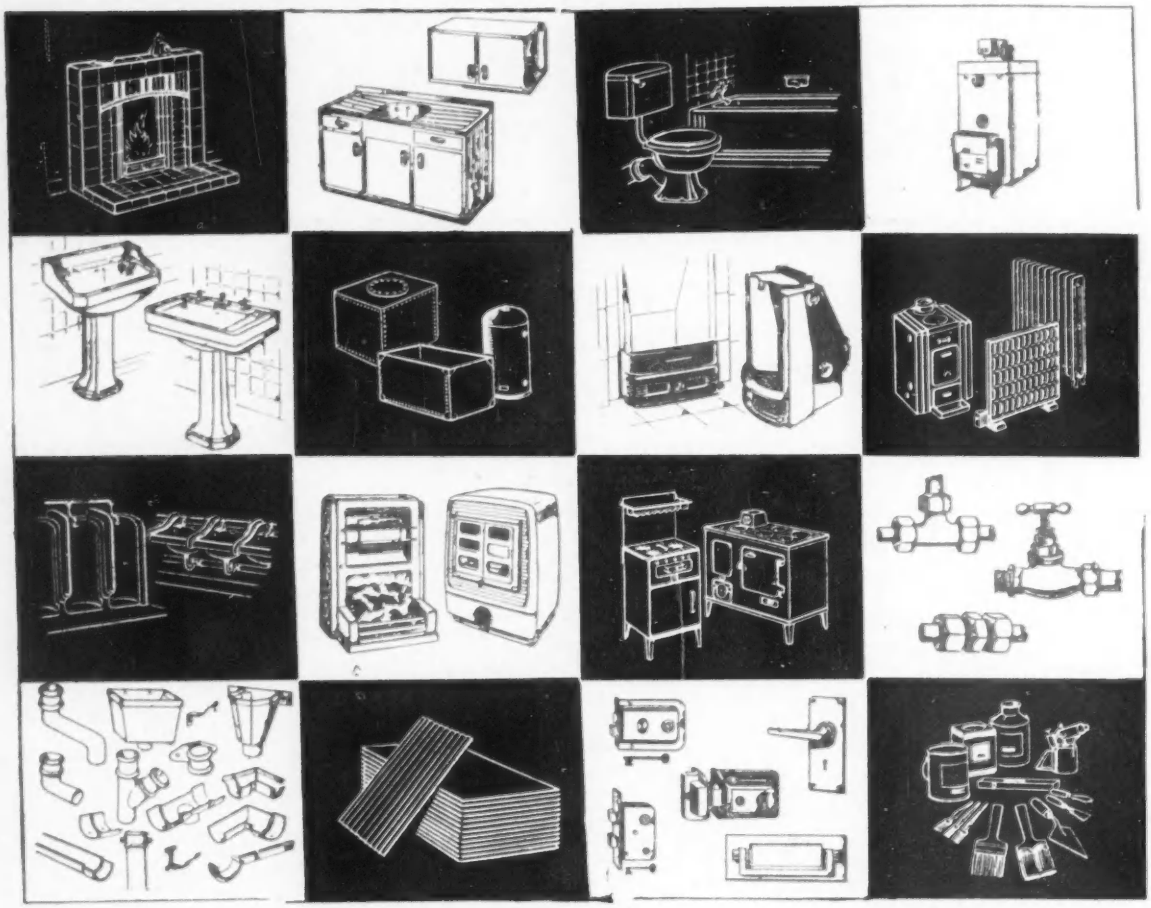

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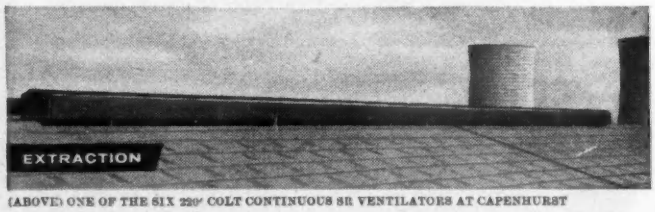

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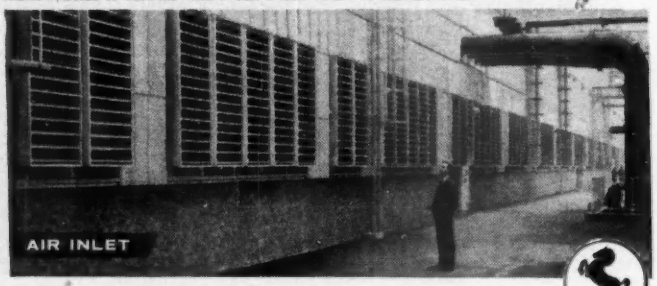

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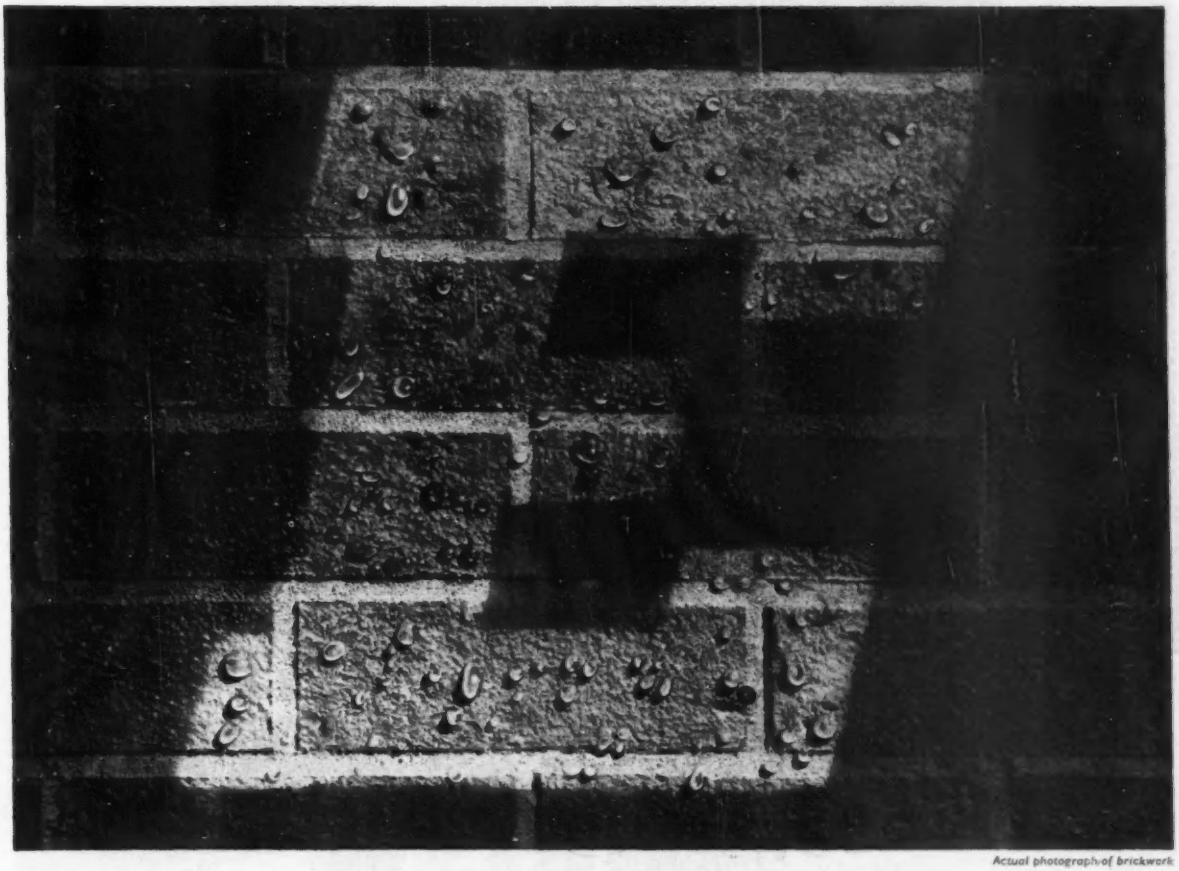

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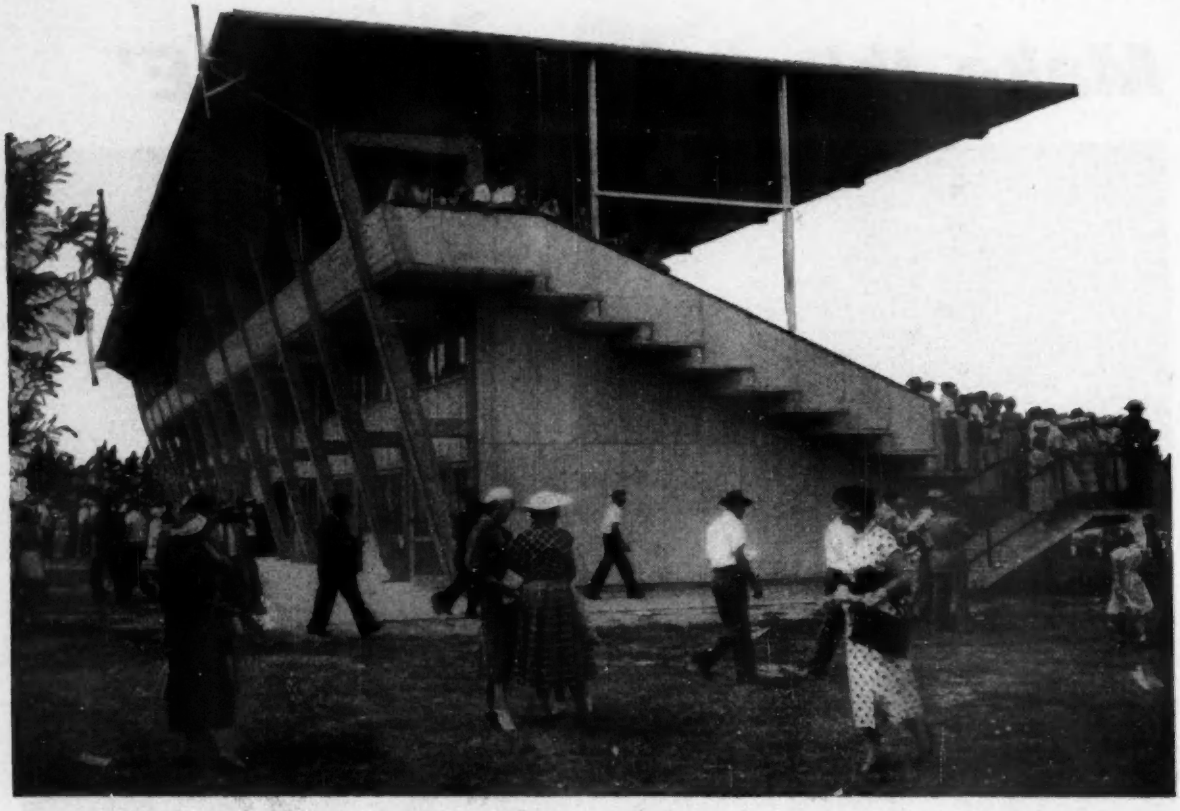

The grandstand at the Matamata racecourse.
Architects: Messrs. Jones, Adams, Kingston & Reynolds.
Contractors: V. Edmonds Ltd.

UP OVER DOWN UNDER

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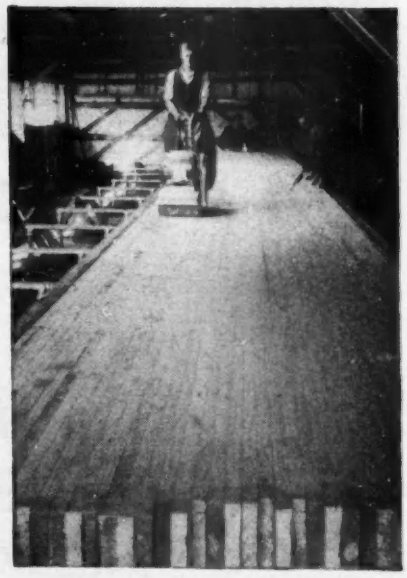

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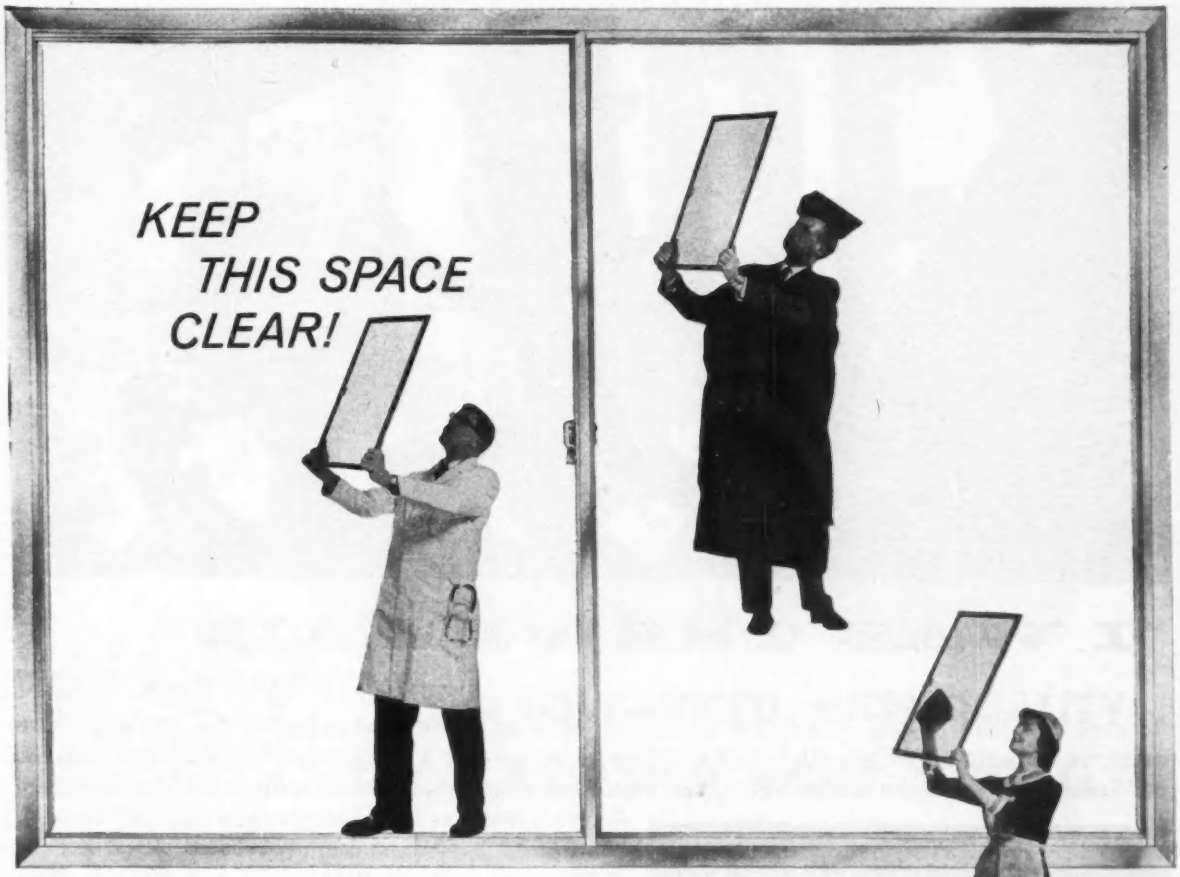

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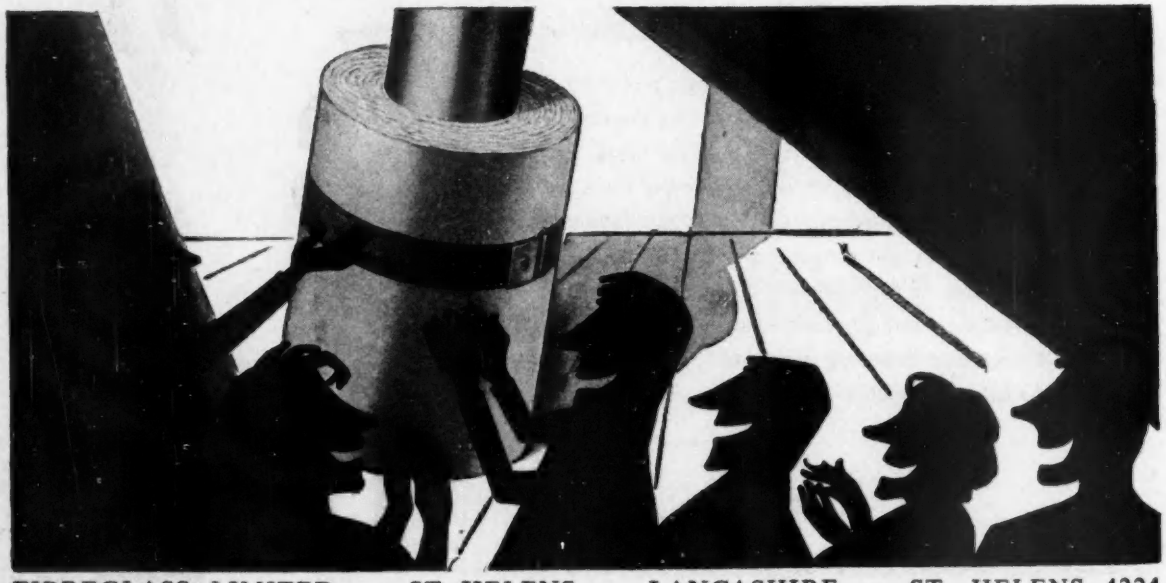

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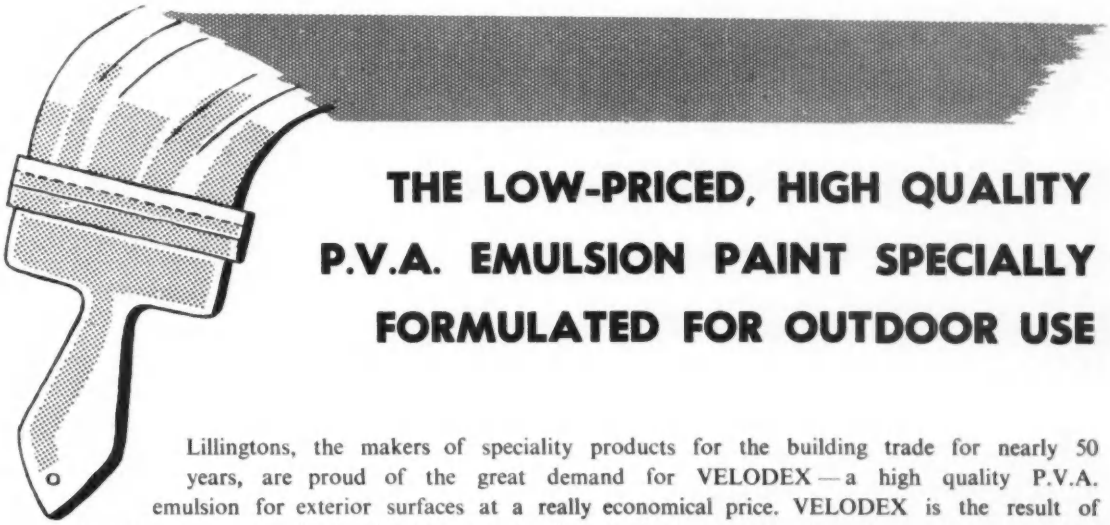

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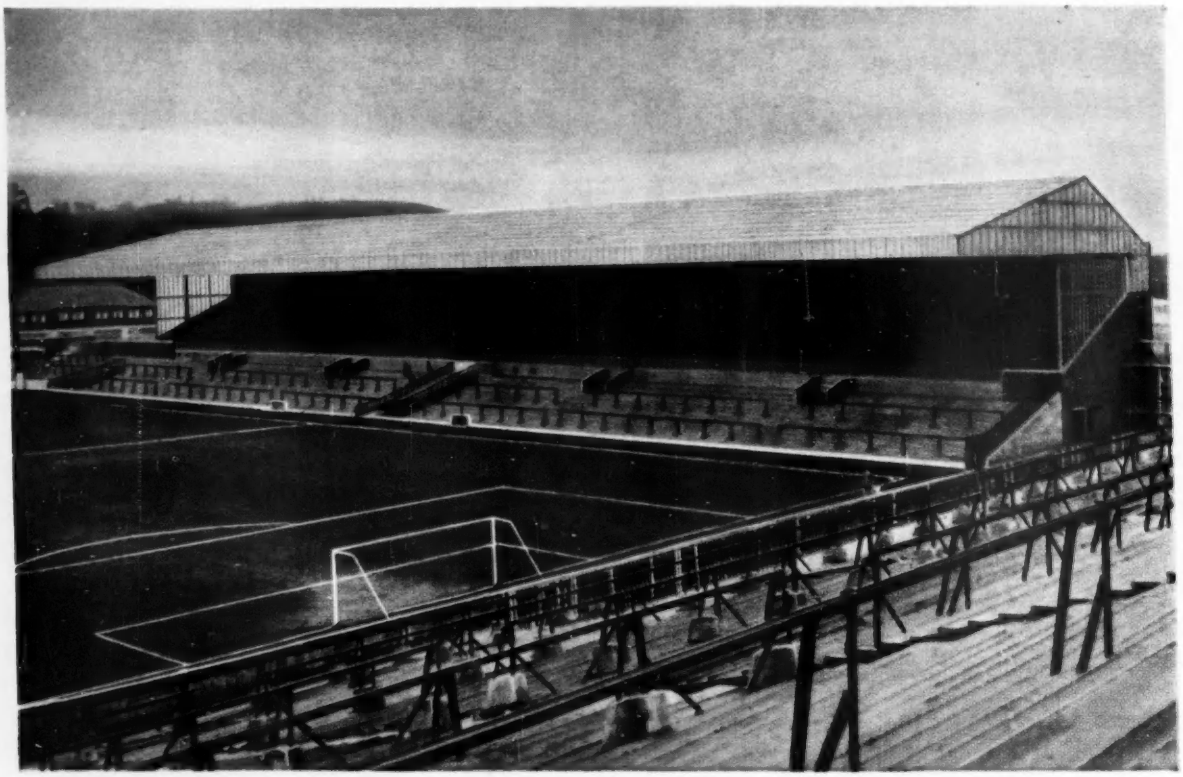

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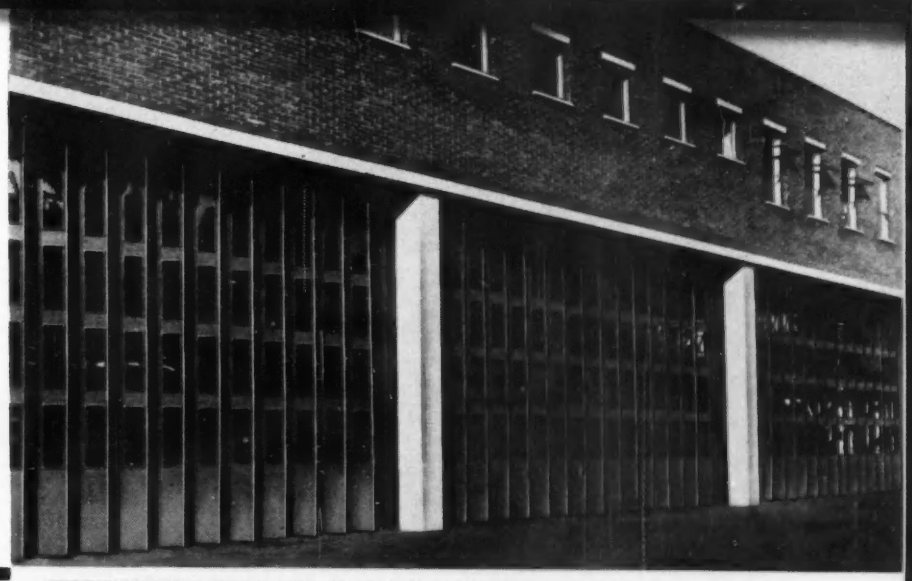
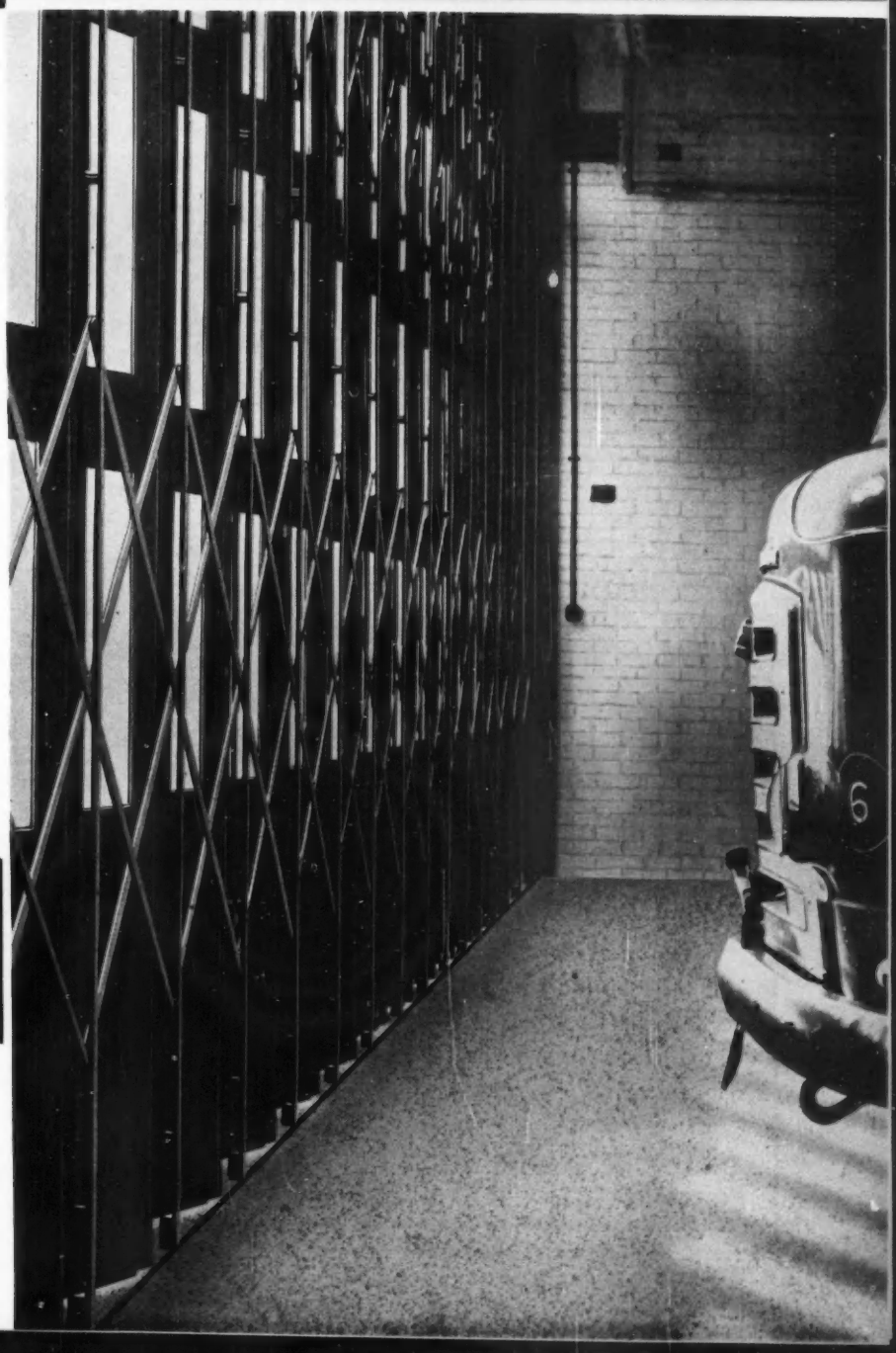


with full daylight



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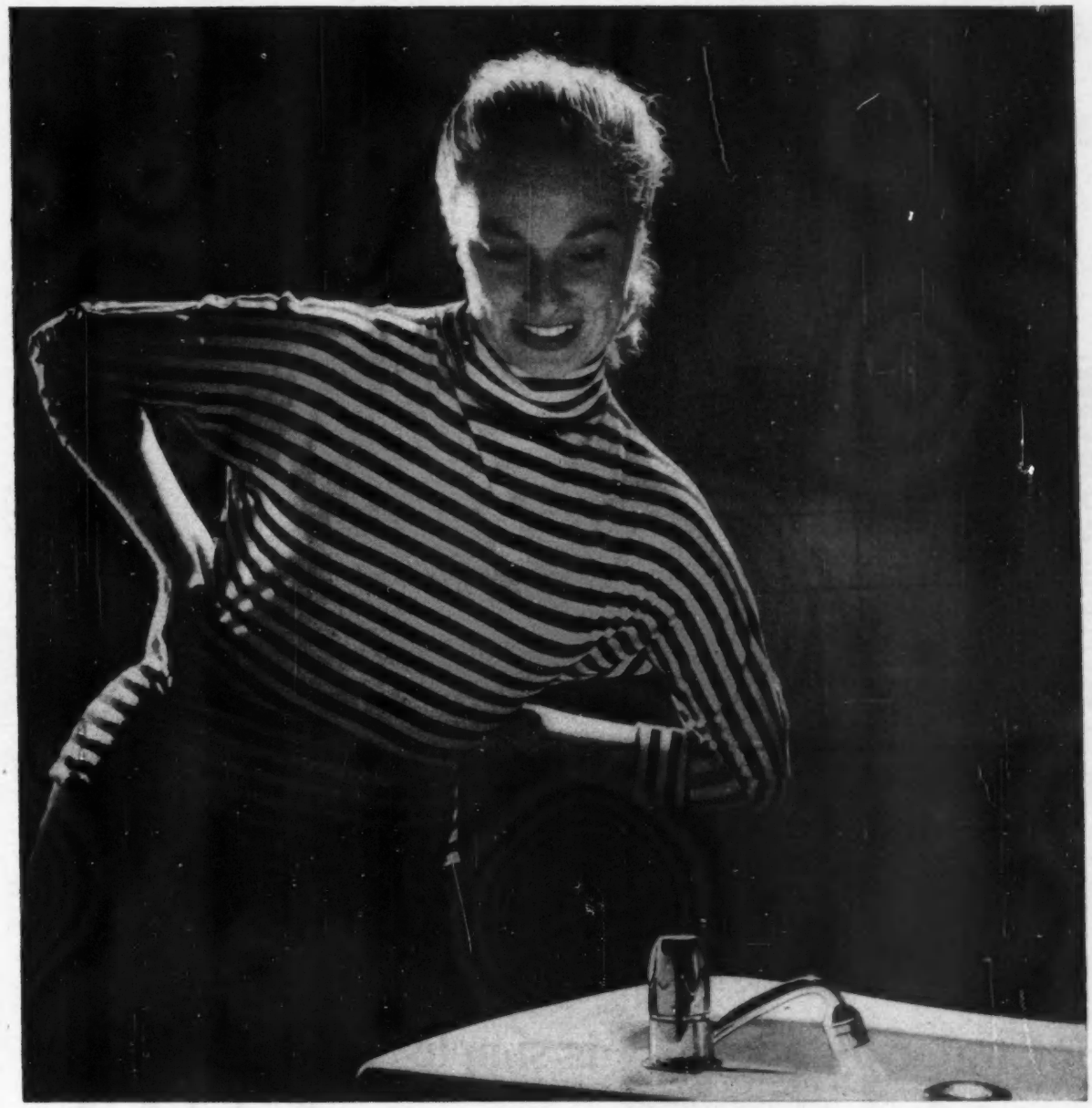

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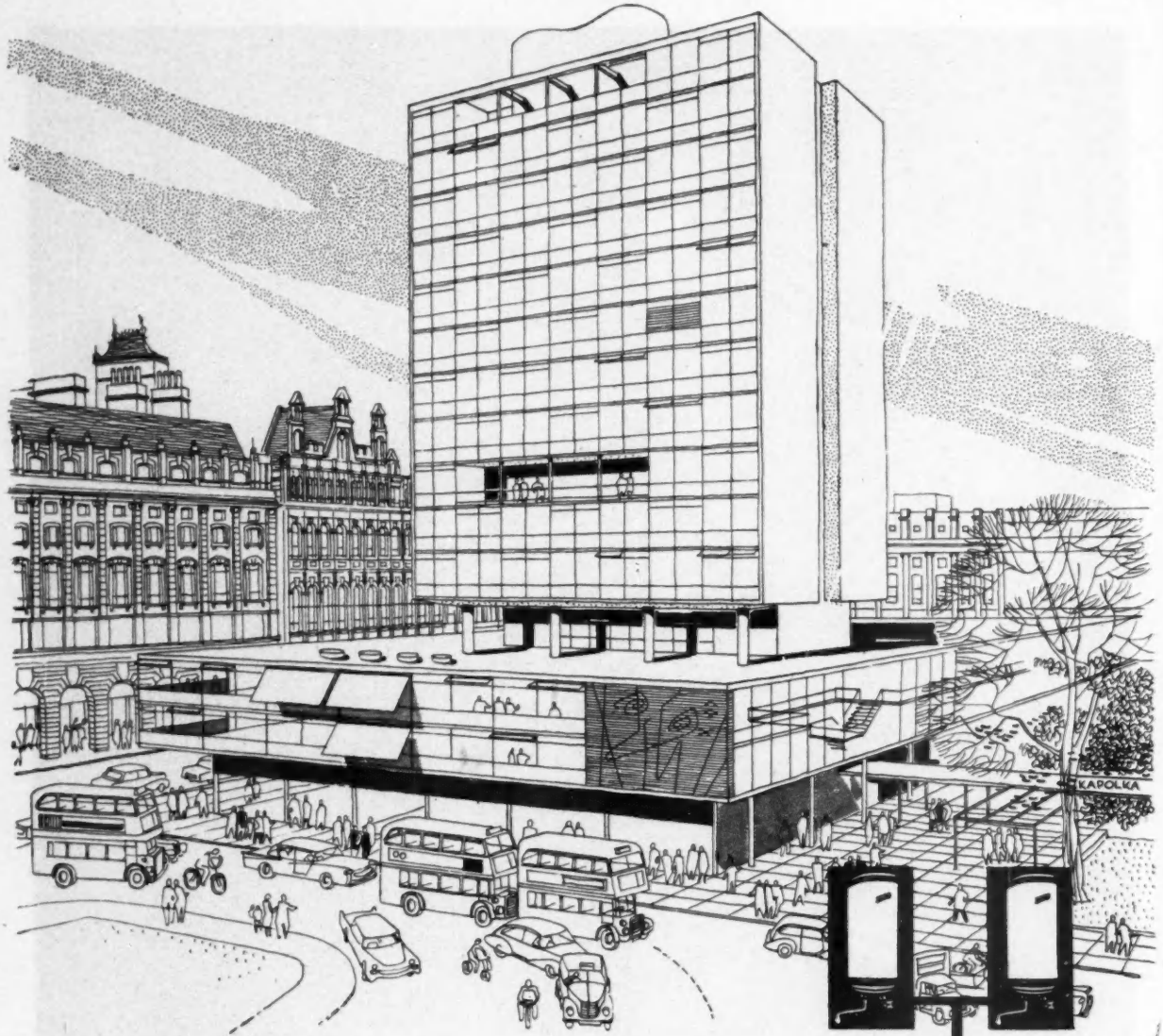

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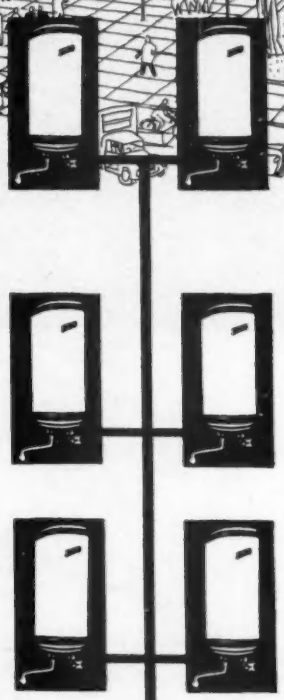

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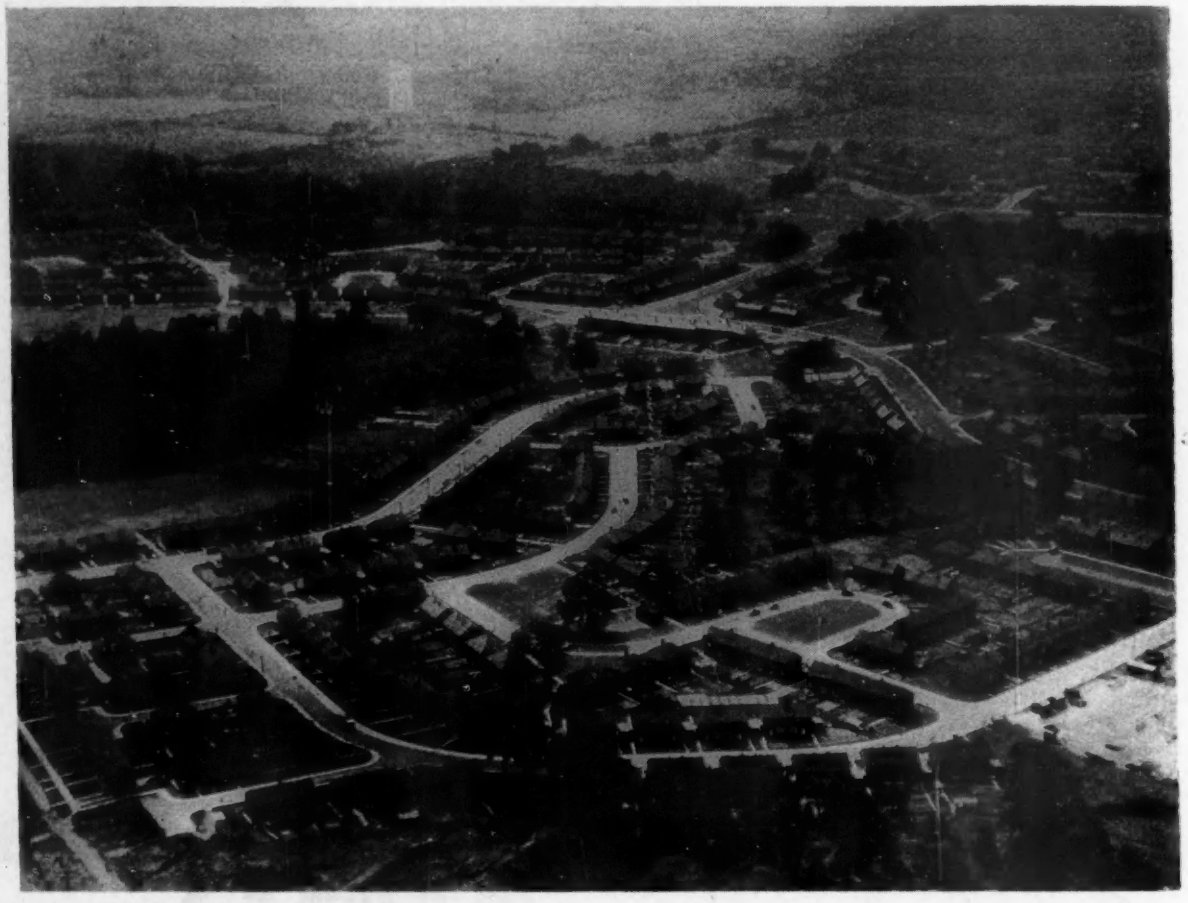

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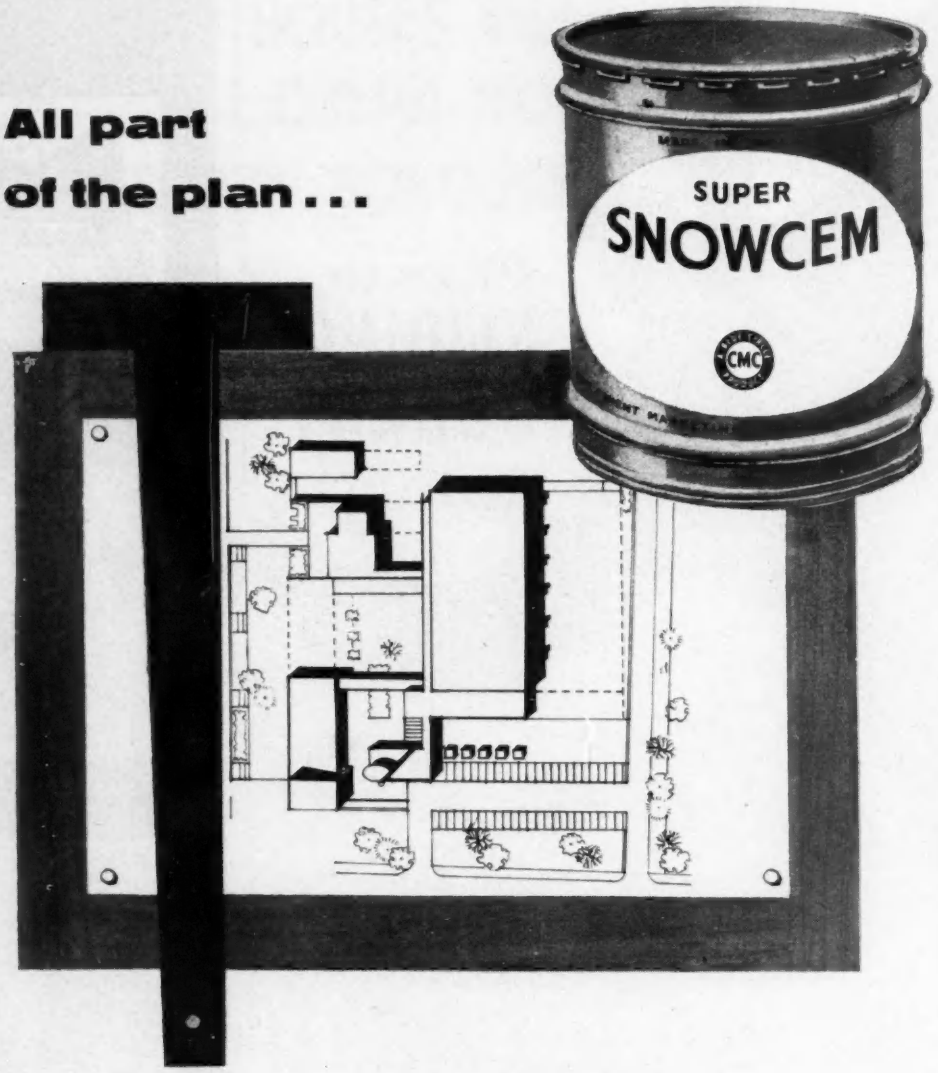

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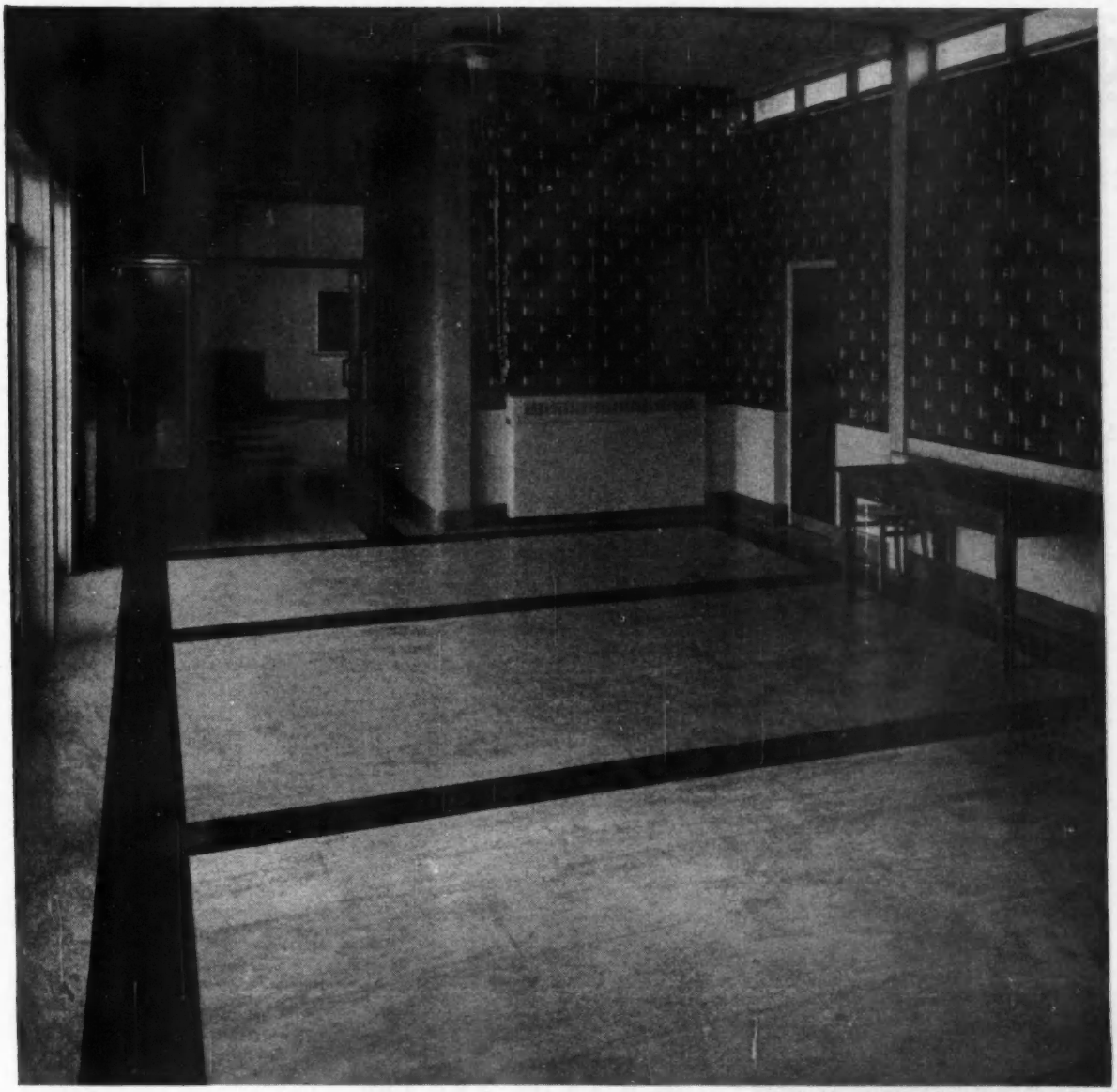

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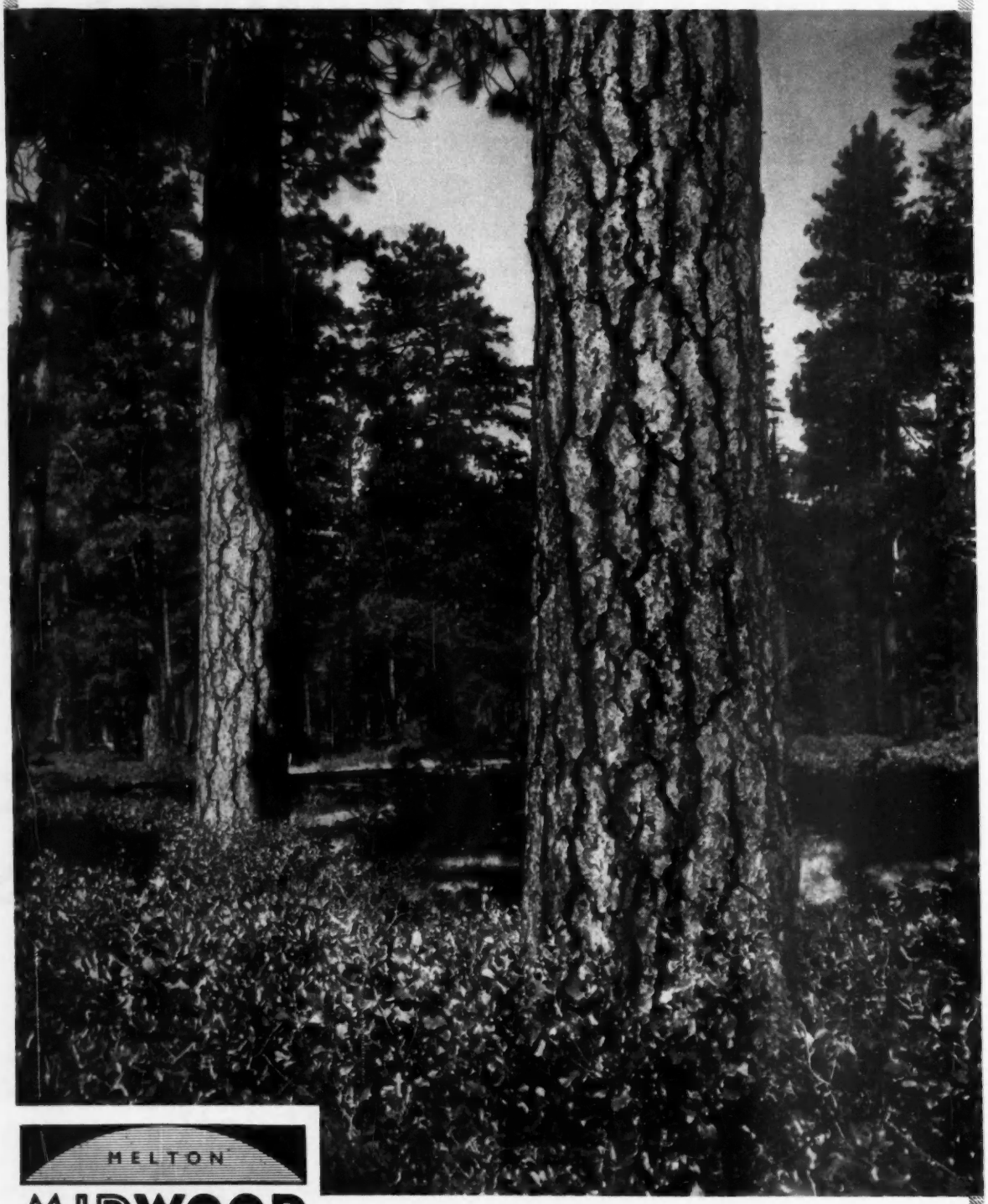

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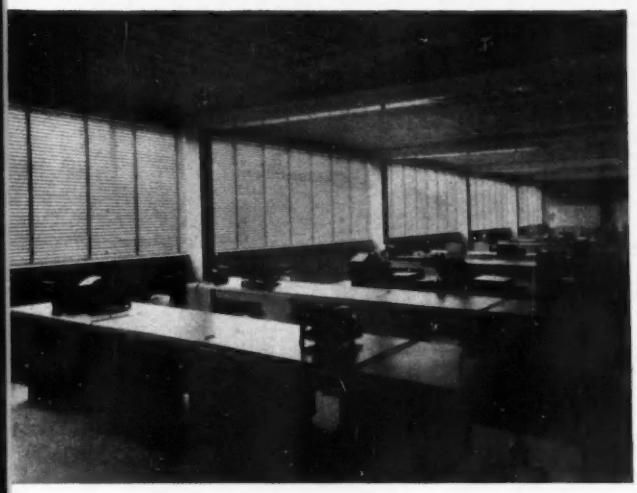

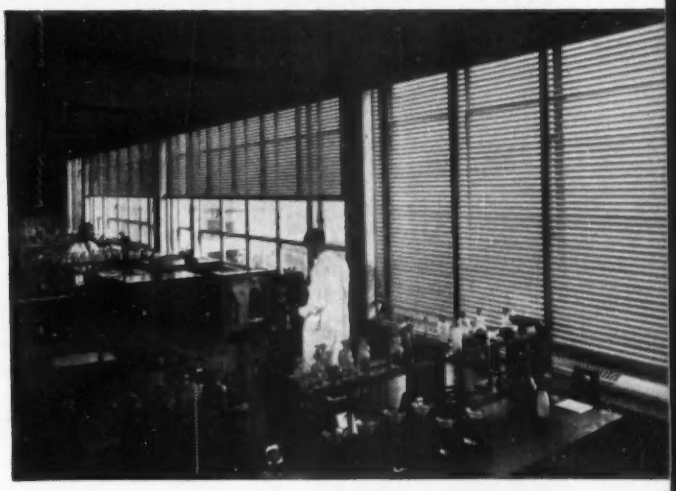

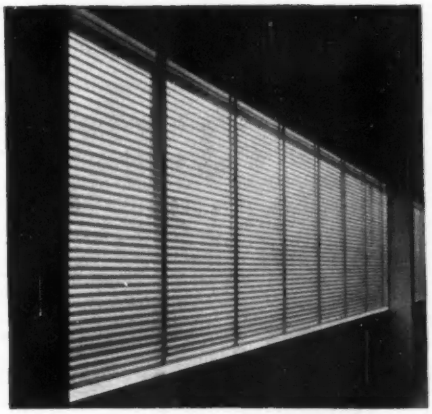

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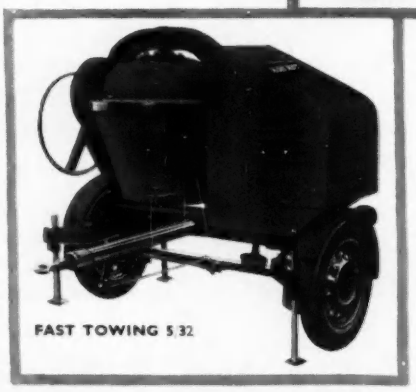

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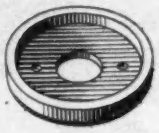

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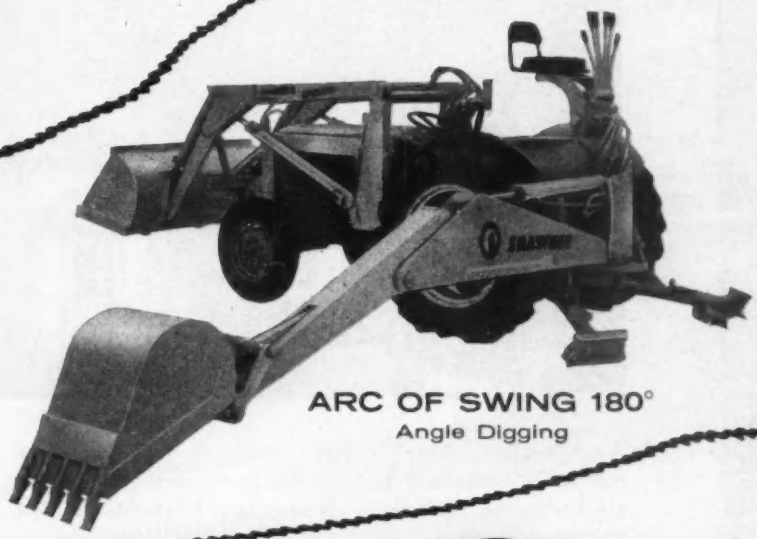

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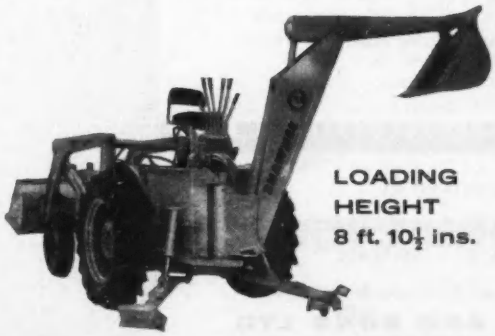

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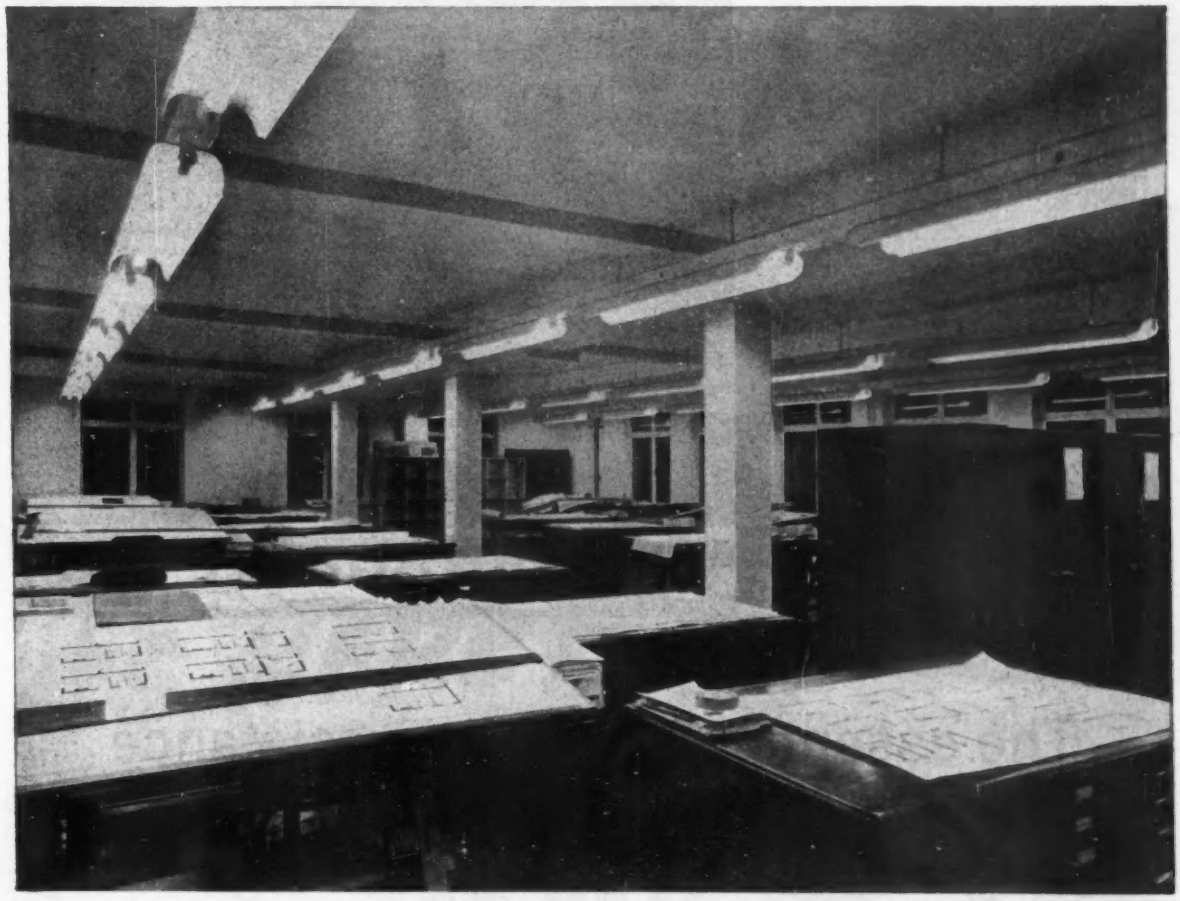

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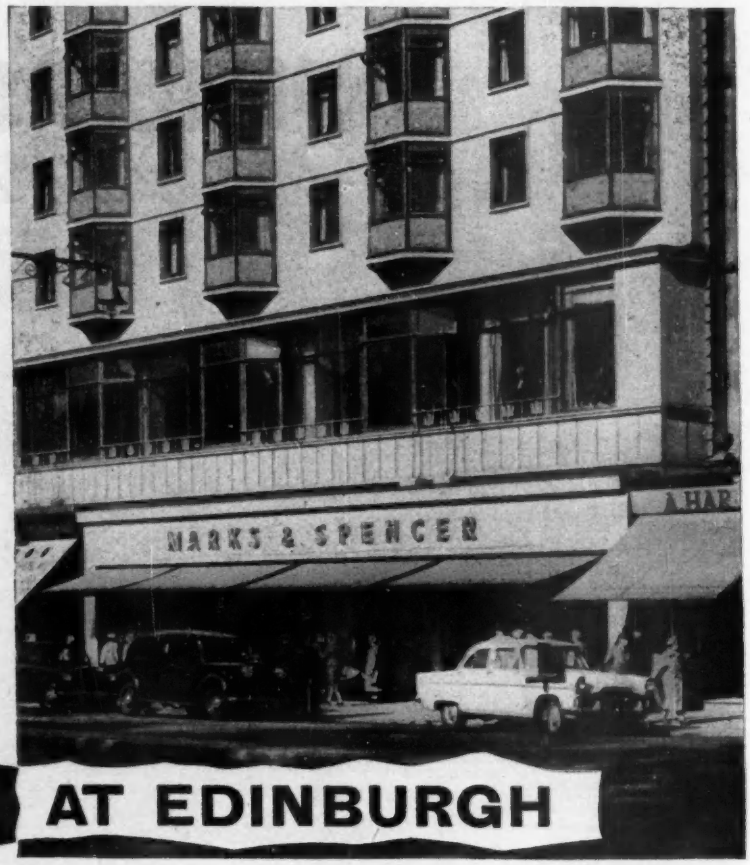

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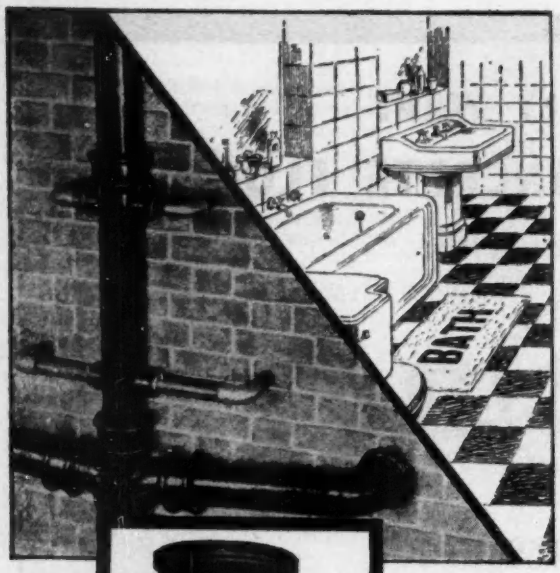

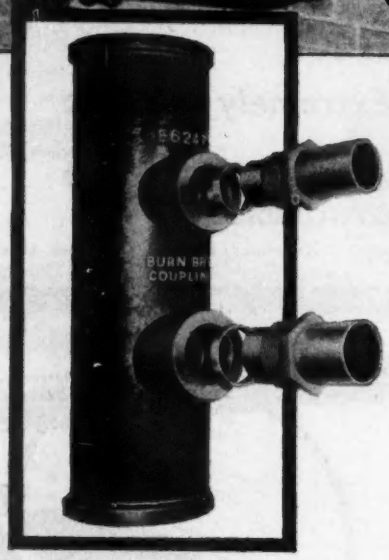

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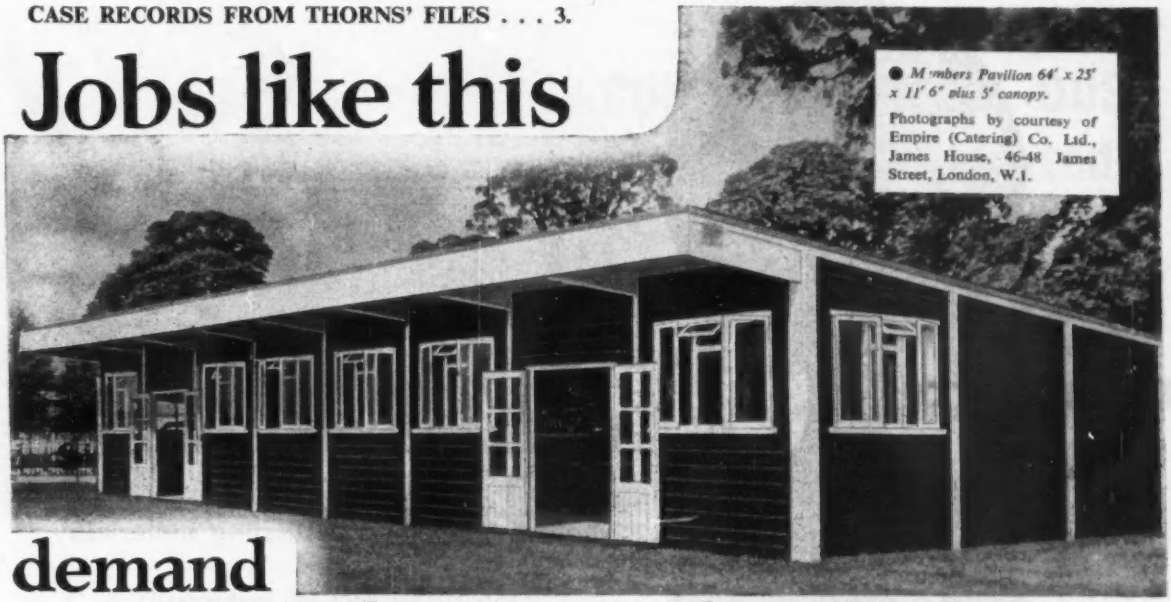

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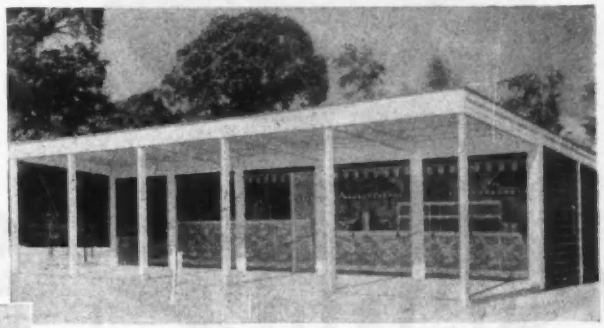

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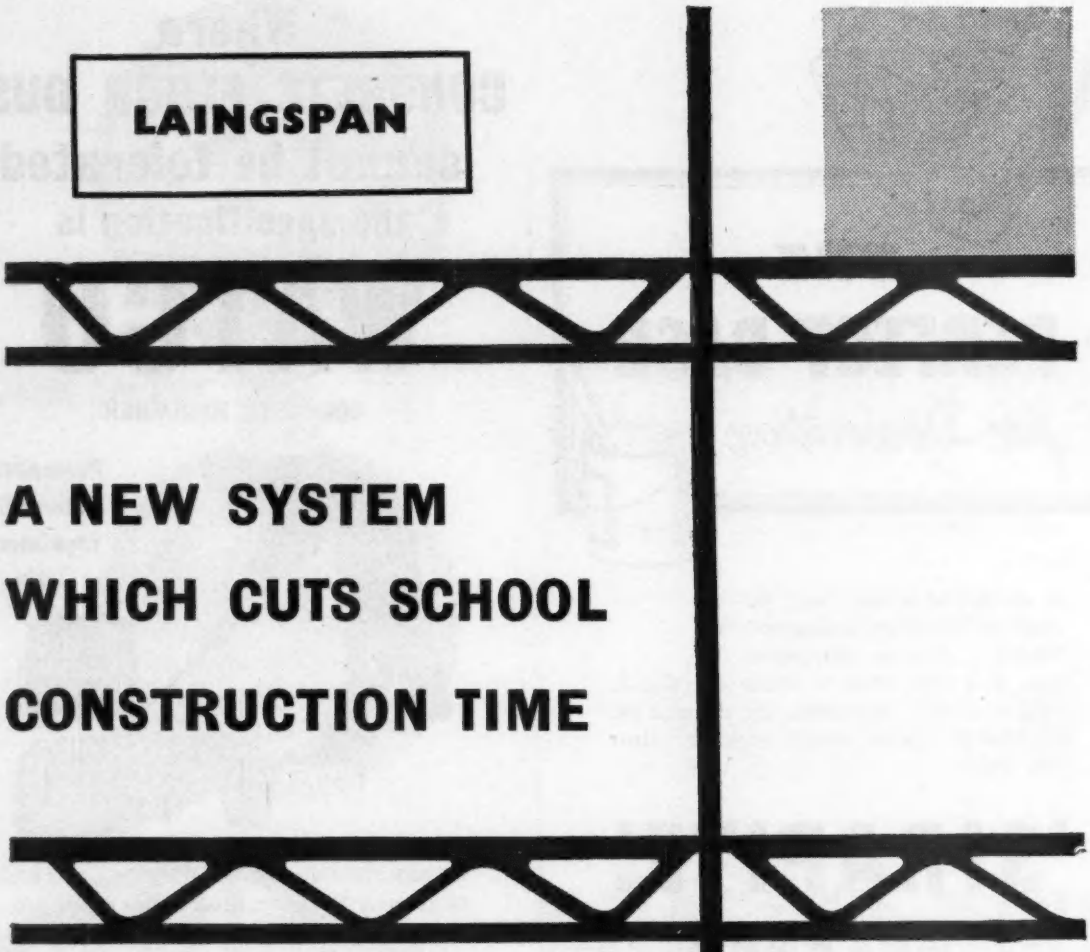

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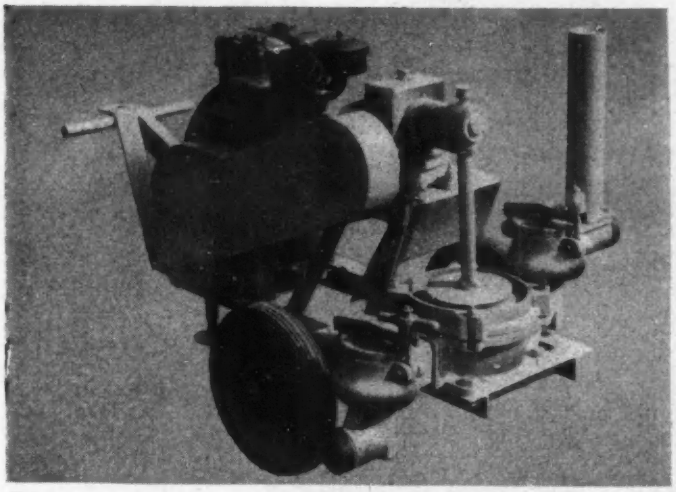

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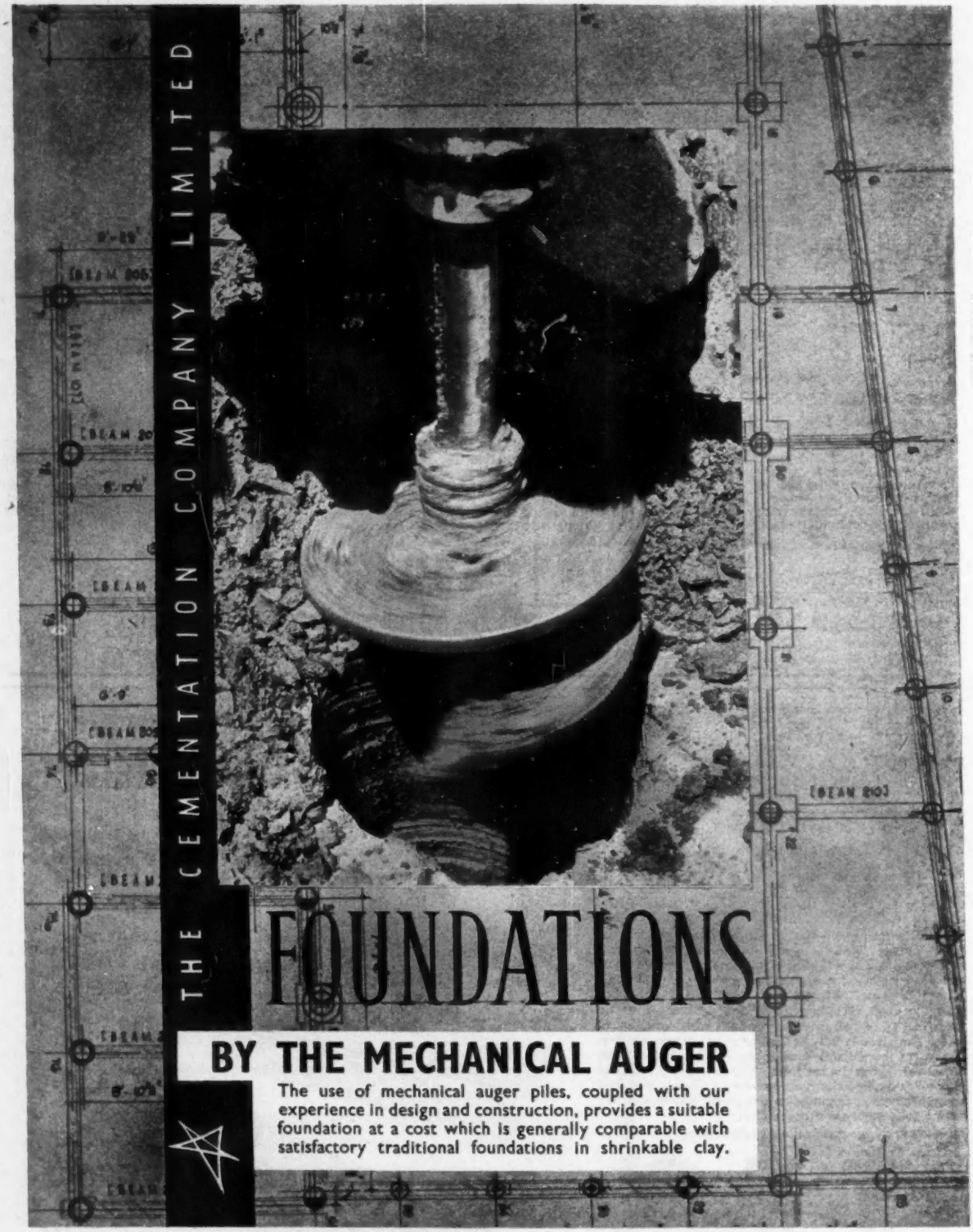

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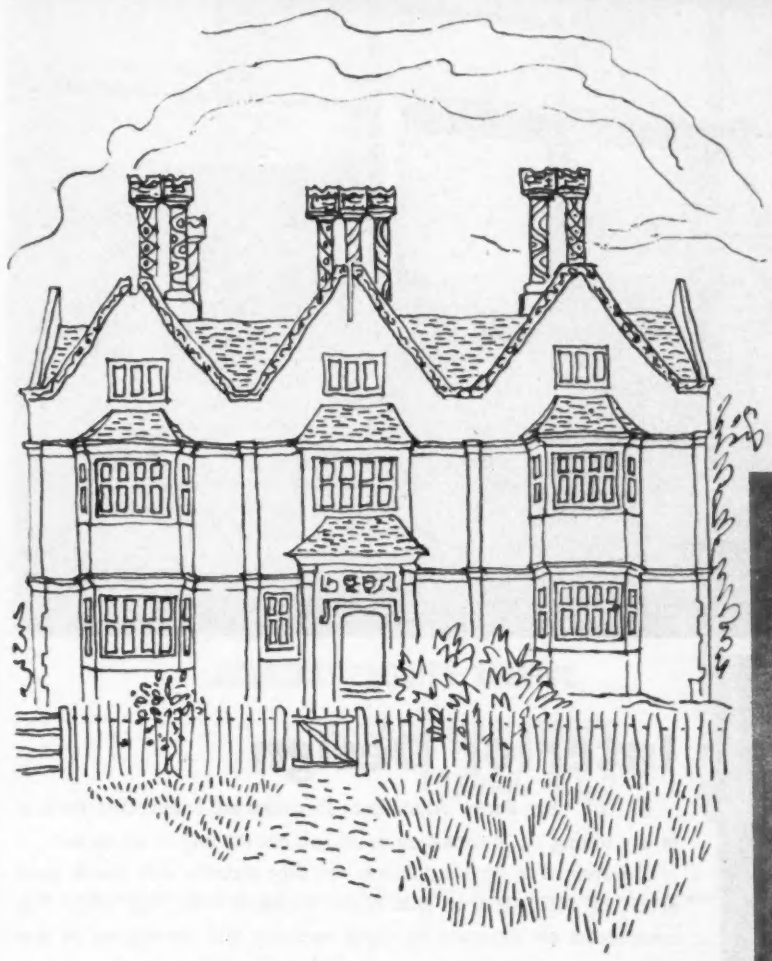

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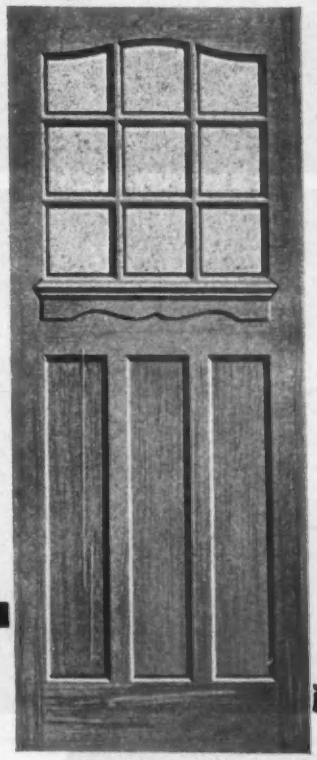

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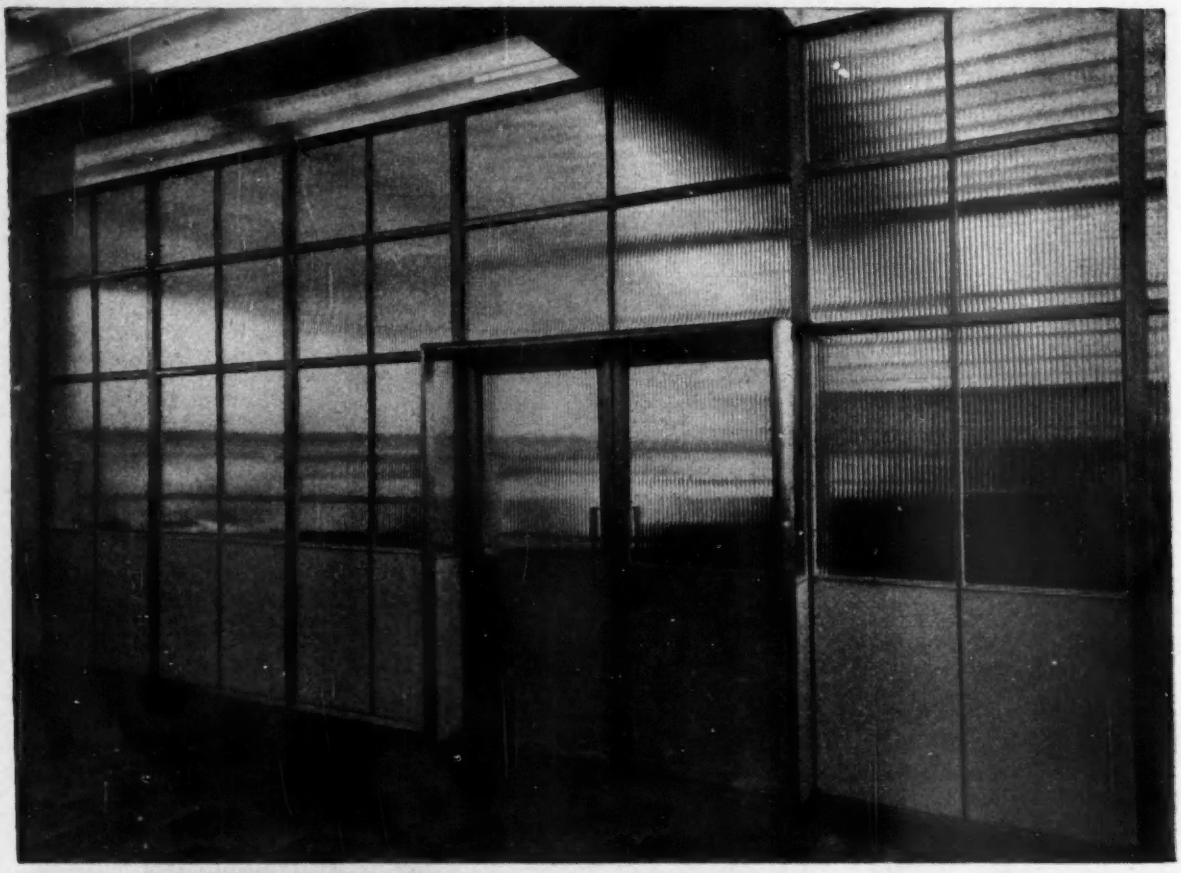

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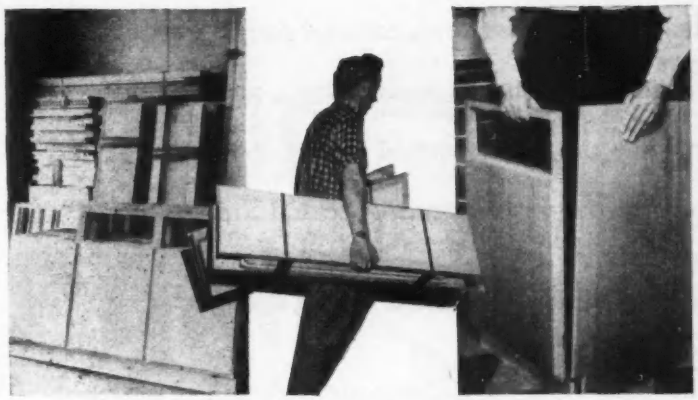

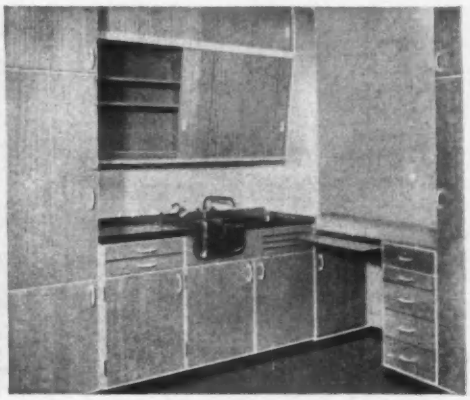

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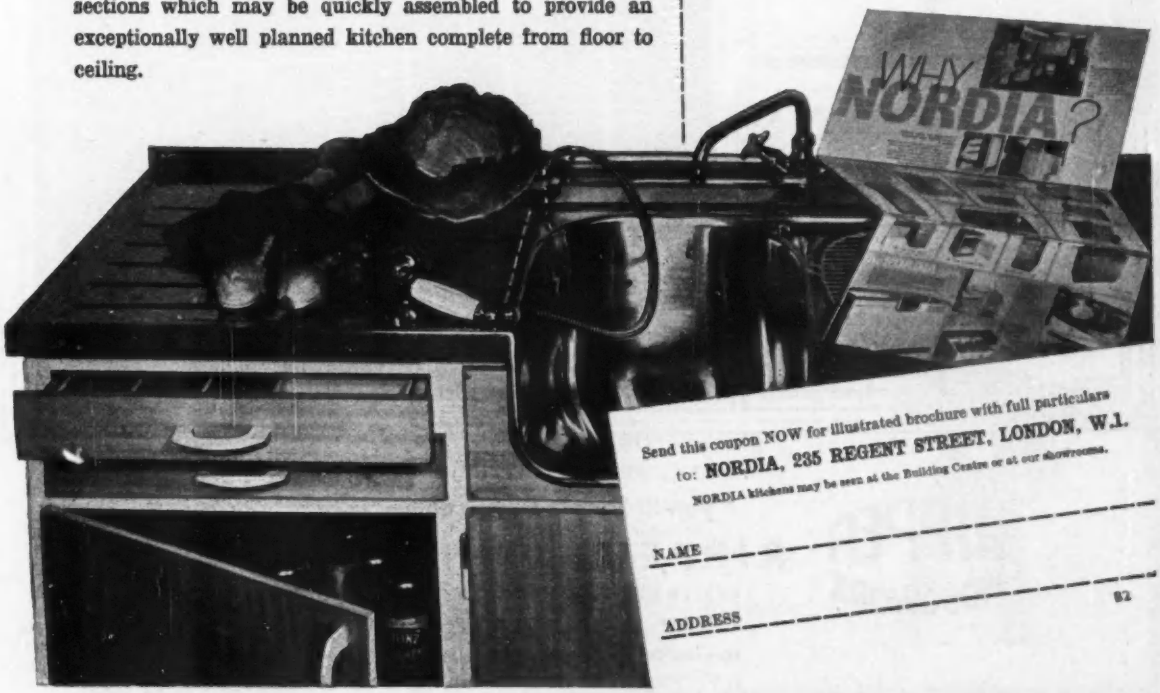

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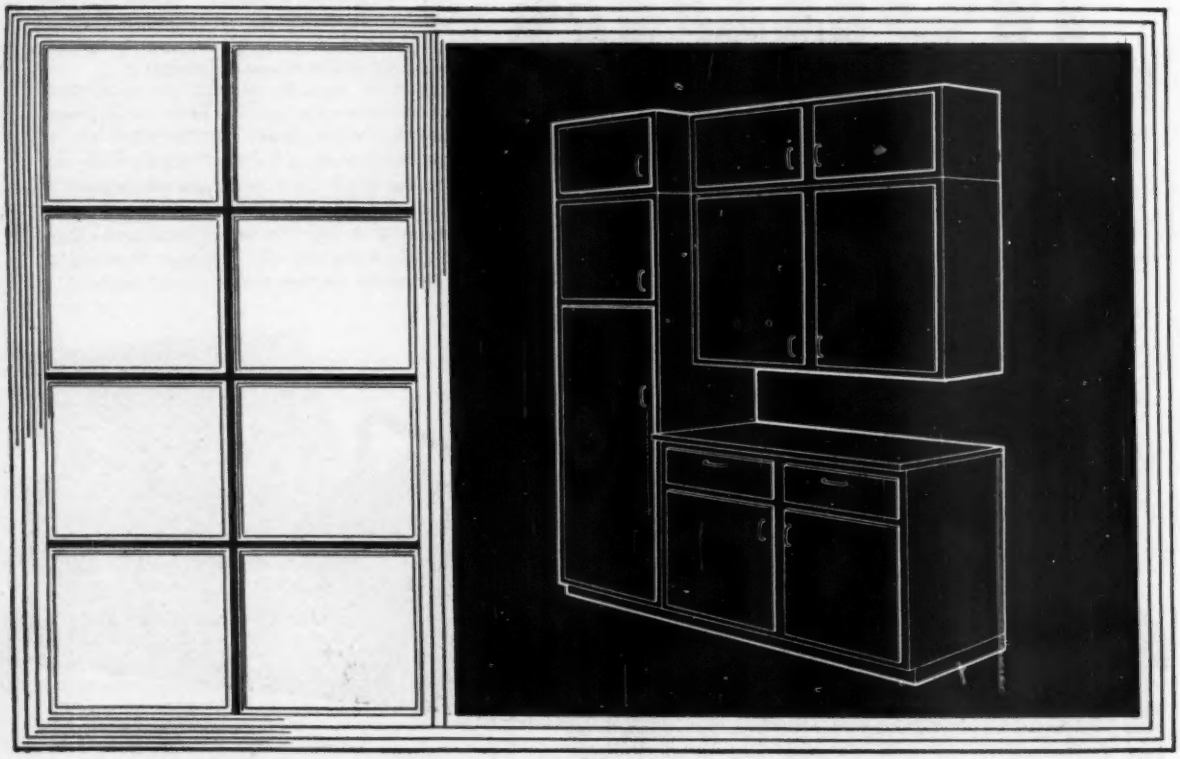

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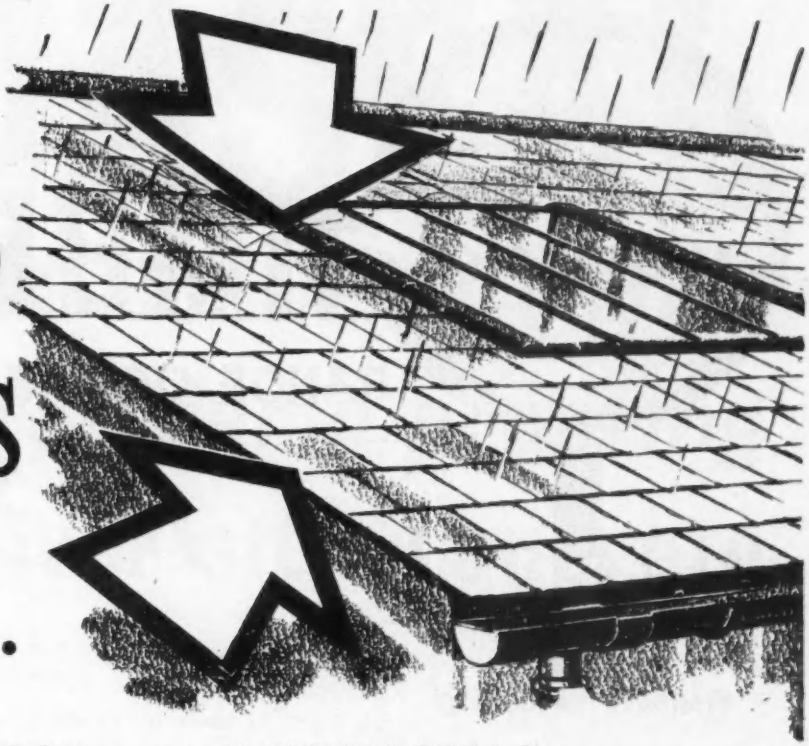

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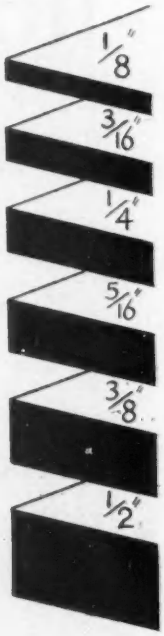

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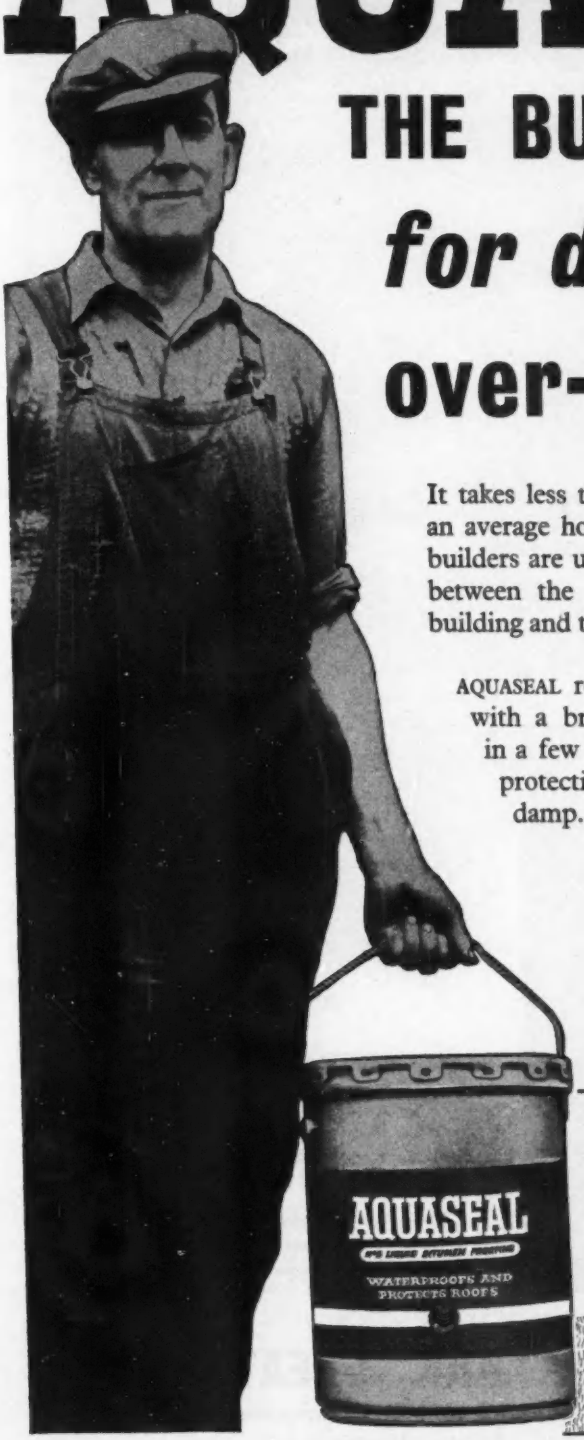

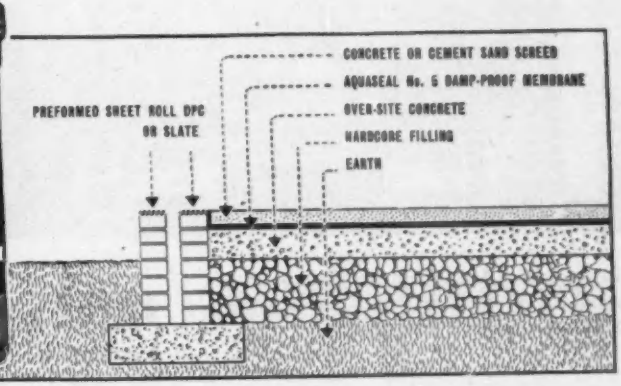

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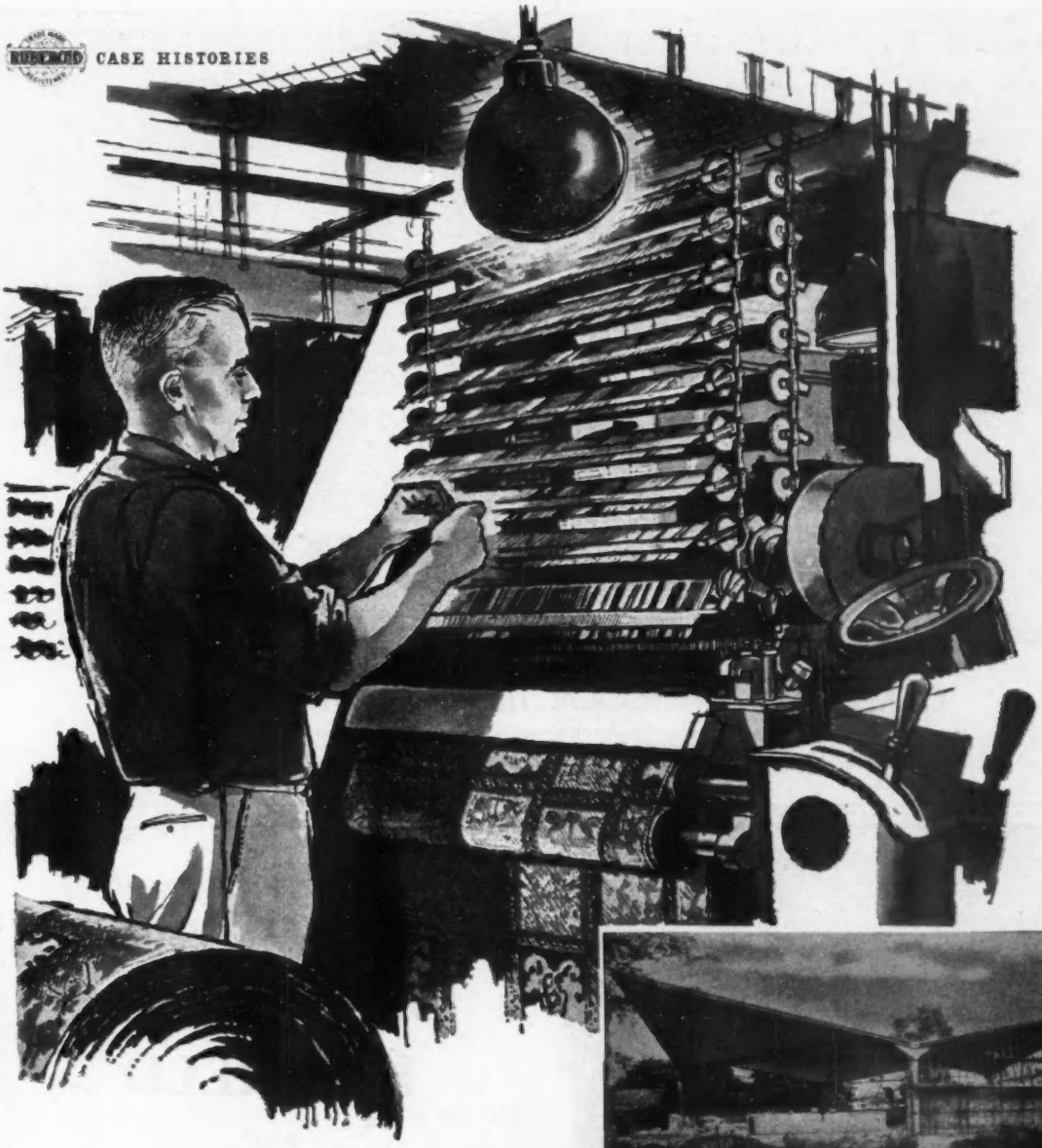

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Illustrated in this issue

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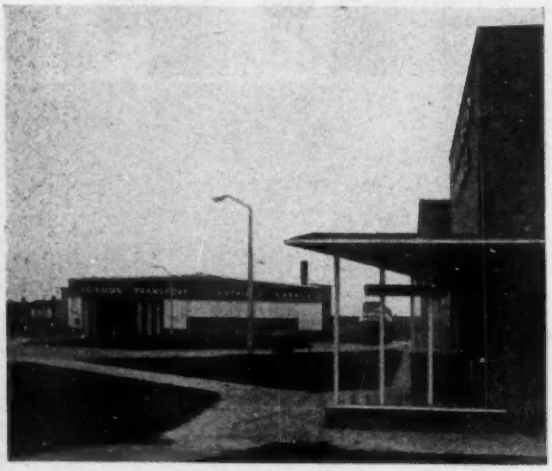

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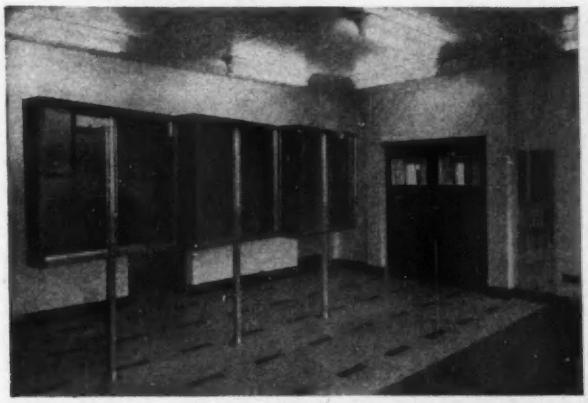

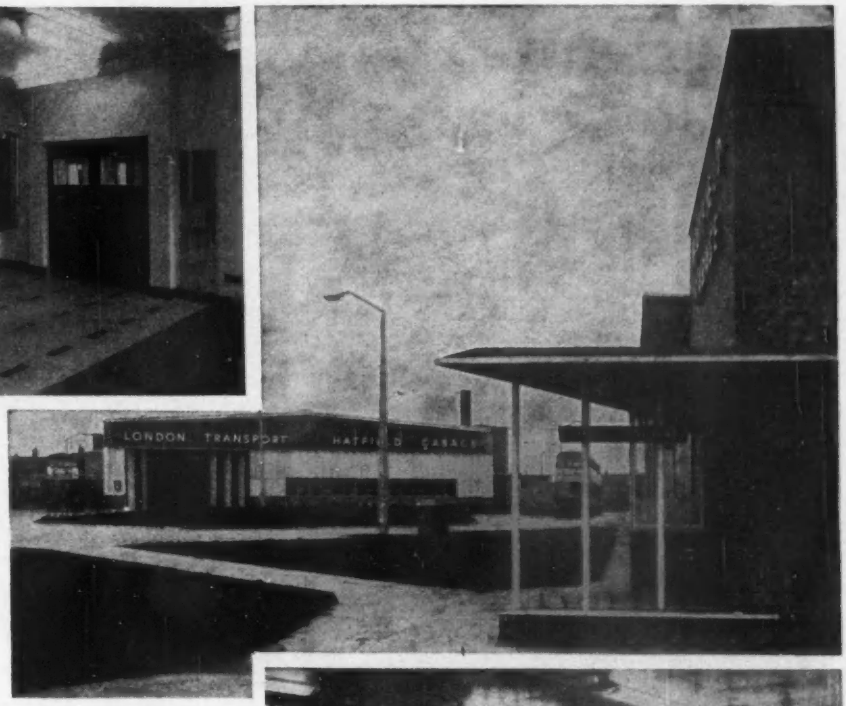

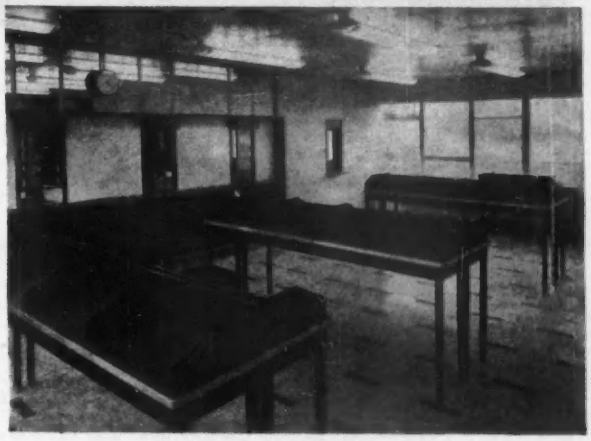

GARAGE AT HATFIELD

FOR LONDON TRANSPORT EXECUTIVE

DESCRIBED IN THIS ISSUE.

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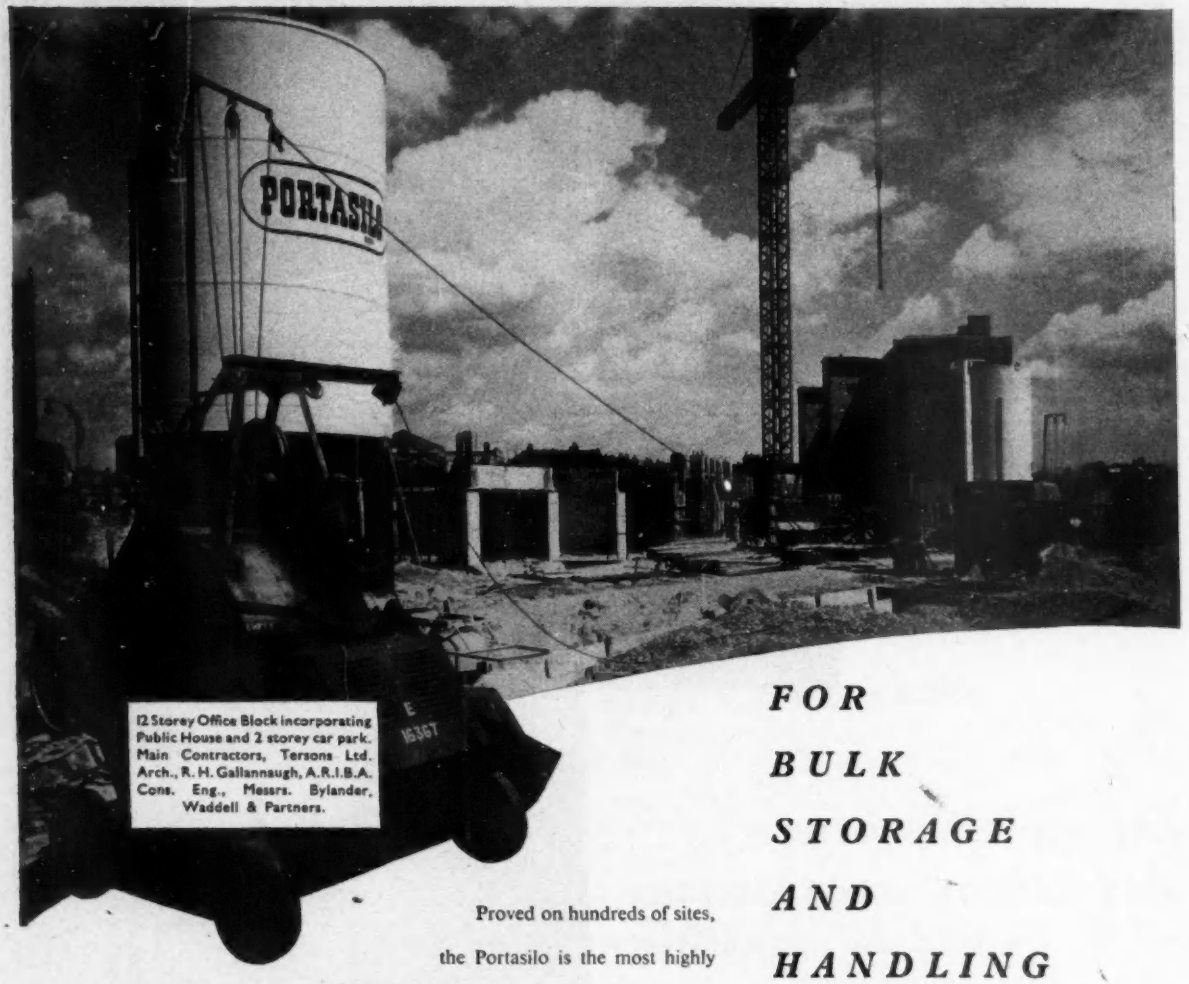

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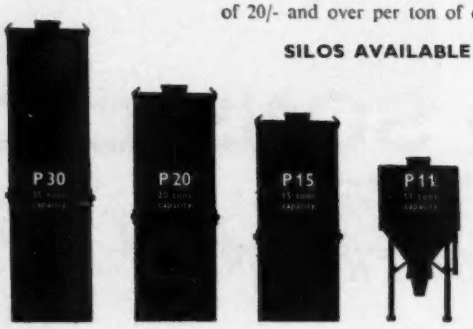

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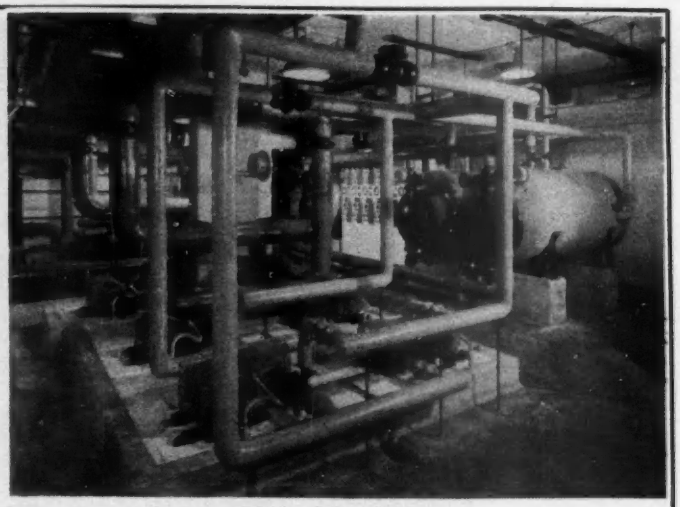

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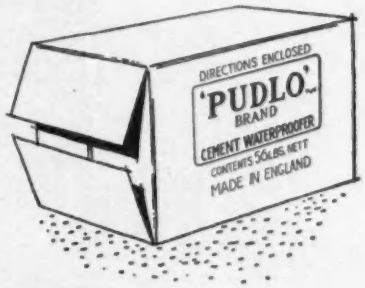

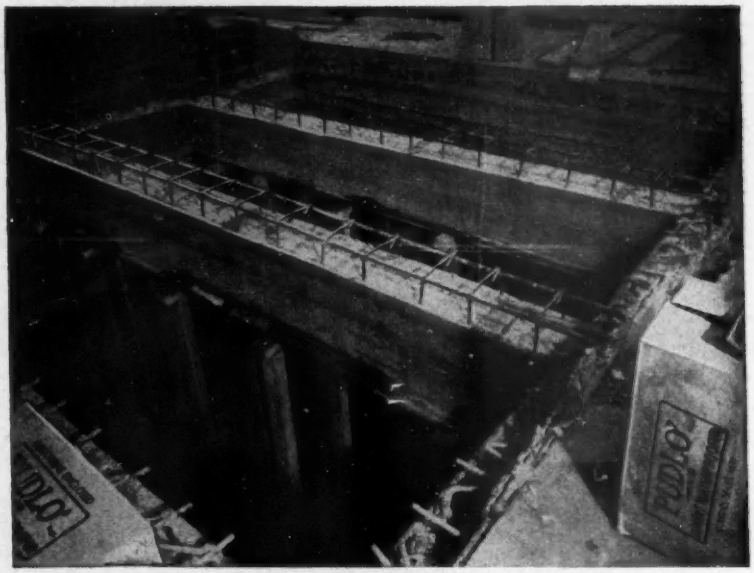

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NEWS SUMMARY

MR. D. W. OLIVER, ARIBA, of Bath, has won three of the 30 *awards in the architectural competition sponsored by* Ideal Home *and the RIBA for designs of small houses.* p. 537

THE RIBA'S decision to raise the standard of entry to the profession is expected to result in a decrease of nearly half in the annual intake of architectural students. p. 554

THE RIBA is to hold a symposium on May 22 *dealing with replanning and renewal of 'The Living Town.'* p. 557

A TEST TRACK for a British monorail is to be built at Basildon. p. 558

FIVE NEW AREAS are added to the list of places where, on account of unemployment, Government help is available for industry. p. 559

'VERY SUBSTANTIAL' increases in the value of new orders for houses, both for public authorities and private developers are reported by the Ministry of Works. p. 563

PRINCIPAL CONTENTS

ILLUSTRATIONS

PAGE

DEVELOPMENT OF THE ZOOLOGICAL GARDENS, REGENTS PARK, LONDON. By Sir Hugh Casson and F. A. P. Stengelhofen ... 538
GARAGE AT HATFIELD FOR LONDON TRANSPORT. By Thomas Bilbow ... 540
OFFICES AT WEMBLEY, MIDDLESEX. By Ministry of Works ... 544
THE CORN EXCHANGE, LIVERPOOL. By H. Hinchcliffe Davies ... 546

ARTICLES

Competition News ... 537
Two Notable Retirements: Sir Alexander Killick and Mr. Stanley Hearder ... 542
Correspondence ... 543
Hotel Planning Trends: 2.—The typical Floor Plan and Guest Room Arrangement ... 549
RIBA: Council's Decision on Raising the Standard of Entry ... 554
RIBA: Notes from Council Minutes ... 555
Historic Buildings: Further Grants ... 555
Architects Registration Council ... 556
Town Planning Decisions ... 557
Piccadilly Circus Redevelopment ... 558
In Parliament ... 559
Prestressed Concrete: Using its Advantages ... 561
Everyday Things—LXXII. By Arthur W. Kenyon, CBE ... 562
The Industry and Research: National President's Views ... 563
New Orders in the Construction Industry ... 563
Construction in the Fourth Quarter of 1958 ... 564
Building Materials: Index of Basic Prices ... 565

THE BUILDER

Incorporating ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVI March 20th 1959 No. 6051

TOWARDS ARCHITECTURE

WHEN a critic of Mr. Raymond Mortimer's distinction can write, as he has just done in a national Sunday newspaper, that 'there is no modern building in London to which one can proudly lead a foreign visitor . . . the merely good is not, or ought not to be, a source of pride,' it is time that the architectural profession at large sat up and began to wonder what it should do about it. It may have its chance if it follows up a decision (first fruit of the Oxford conference of last April on architectural education) that, with effect from September, 1961, the minimum standard for the probationership of the RIBA shall be the General Certificate of Education in five subjects from a prescribed list (including the English language and mathematics or a science subject) *at least two of the subjects being at 'A' level.* The RIBA Council's announcement, printed on another page, shows that this requirement, which is to be suitably adjusted for Scottish and for Commonwealth candidates, will not affect entrance requirements of any particular University schools.

This decision is a good one, so far as it goes. It ought not to be thought that the wand to be waved has any high-powered quality of magic about it; most educationists would probably agree with our view that the new requirements are on a virtual par with the old Matriculation standard which called for the whole examination to be passed at one sitting. But at least future insistence on two 'A' level subjects will ensure a longer period of full-time general education and, not less important, be proof that candidates have shown some degree of perseverance and concentration.

What is now important is that the RIBA Council should come to wise decisions as to the future professional training of its probationers and students. Opportunity for fine architecture in any country depends for fulfilment not only on there being a sufficiency of great architects available; even more it requires a climate of opinion in that country favourable to architects and encouraging to informed development and experiment. Sadly, that climate hardly exists in Great Britain today, and it may well be that the immediate task in front of the RIBA and its Board of Architectural Education is to set about producing a genus of architects which, as a profession, can win a much higher reputation in the general public's mind as good designers and co-ordinators of the building process than at present enjoyed. In such a task the wisdom of trying to produce architects by means of a five-year course of full-time study must be questioned, the more especially as the higher educational standards to be required of the probationer may well lead to the closing of the architectural departments of many technical colleges and the concentration of student intake in schools attached to Universities.

Earlier in this article it was suggested that the architectural profession at large could do something to make its views felt on what is perhaps the most serious of the many problems confronting architecture. The Allied Societies (whose members probably suffer more than does the London practitioner from the effects of public lack of confidence in the profession) must continue their pressure to see that practical as well as theoretic considerations be given their due weight in the councils of the RIBA and the Board, and not least to hold a brief for the specially gifted candidate whose talents cannot be measured by rule-of-thumb standards and whose acceptance to architectural training, under independent surveillance, must be safeguarded.

Notes of the Week

Partnership with the Disqualified

FOR THE PAST SIX MONTHS the question of what principles should guide it in dealing with architects disqualified for 'disgraceful conduct' has been under consideration by the Architects Registration Council. Last October the Council resolved that architects on the Register should (a) neither enter into partnership nor (b) take employment with architects who had been disqualified by reason of disgraceful conduct or for having been convicted of a criminal offence, and instructed the Professional Purposes Committee to prepare a draft Article for consideration.

The committee reported to the Council at its meeting on March 11, when the effect of such an Article was considered on an architect already in partnership with another who subsequently incurred disqualification, and also on other architects who might seek salaried employment with the firm.

* * *

THE COUNCIL has now decided, very properly as many will think, that the incorporation of such an Article in the Code would bear hardly on an innocent partner or partners, and has accepted the committee's recommendation that, as from January 1 next, 'an architect must not enter into partnership, in the practice of architecture, with any person who is disqualified from registration by reason of the fact that his name has been removed from the Register under Sect. 7 of the Architects (Registration) Act, 1931.' The decision does raise, of course, the question whether deeds of partnership between architects should make provision for dissolution should a partner be disqualified under the section, but this is a matter of private rather than public moment.

AA Annual Reception

IT HAS always been the tradition of the Architectural Association to invite all members to the annual reception and only make a charge for members' guests. This year the Council is faced with making strict all-round economies to meet continually rising costs, including a reduction in the cost of the reception which, normally, is financed from the general fund from members' subscriptions. It is felt that when economies are being made then those who come to the reception should make a greater contribution than those who do not. The President has accordingly written to members informing them that, with great regret, the council has found it necessary this year to charge all members £1 in addition to the £1 usually charged for members' guests. This additional charge will not completely cover the cost, but will greatly assist in balancing the budget. Mr. Clarke Hall adds that he sincerely hopes that members will continue to give this important annual event the support they have shown in the past. The reception takes place on Thursday, April 16, at 8.30 p.m.

Exporting to South America

ARE BRITISH manufacturers of building materials and components taking advantage of the huge potential market for their products that South America offers today? Mr. H. J. Venning, FRICS, ARIBA, who recently visited the Argentine, Brazil, Venezuela and the British islands in the Caribbean, thinks not. The best opportunities, he believes, lie in Brazil and Venezuela, both countries of considerable wealth and with great natural resources, where an enormous amount of new building is taking place in the large cities.

In Brazil, Mr. Venning was impressed with the amount of work being done in Sao Paulo and Bahia, much of it in the form of skyscrapers. A great deal of building is also under way in Brasilia. In Venezuela the old city of Caracas is virtually being swept away to make way for the new, where skyscrapers and other buildings are going up on every side. There was less activity in the Argentine, which, with its dependence on agriculture, did not appear to Mr. Venning to possess the wealth for building on a comparable scale to its richer neighbours.

In none of these countries was there any sign of British participation in the building programme, but Mr. Venning thinks that there should be opportunities for curtain walling components, windows, doors, glass, sanitary fittings and possibly steel for reinforcing work, if this can compete in price with that of other countries. It was interesting to note that, while not absent, American influence nowhere appeared to be overwhelming. In the British Caribbean islands British contractors bearing well-known names were much in evidence.

Altogether Mr. Venning has brought back a heartening report of the opportunities that exist for furthering British trade in South America, and it is to be hoped that the manufacturers to whom his remarks apply will not be slow to follow his lead. Mr. Venning warns that 'considerable currency fluctuations' occur in S. America, and exporters should safeguard themselves against this risk.

WESTMINSTER SKYSCRAPER.—A perspective of the new £5m. building to be erected on Millbank, close to the Tate Gallery, by the Legal & General Assurance Society to house part of the headquarters of the Vickers group of companies. There are three main blocks in the development: a 31-storey tower block some 370 ft. high, which will be the tallest office building in Britain; an 8-storey 'Y'-shaped block and an 11-storey residential block. The scheme has been accepted by the RFAC and all the authorities concerned. The architects are Messrs. Ronald Ward & Partners; the quantity surveyors Messrs. Franklin & Andrews, Mr. M. H. Thackray being the partner in charge; and the consulting engineer is Mr. G. W. Kirkland, of Messrs. Travers Morgan & Partners. The main contractors are John Mowlem & Co., Ltd.

COMPETITION NEWS

RIBA—'Ideal Home' Small House Design Award

THE assessors in the competition organised by the Royal Institute of British Architects and *Ideal Home* magazine (Messrs. Clifford Culpin, OBE, FRIBA, MTPI; Eric Ambrose, BA(Arch), FRIBA; and Peter Dunham, FRIBA) have now made their award. There were 1,523 entries—a record for an architectural competition in the United Kingdom—and from these 30 designs have been selected. These designs, which are not placed in any order of merit, will be issued in a special publication later this year. Members of the public and builders will then be able to buy the plans for any of these houses from *Ideal Home*.

Among the 30 selected designs, each of which wins £75 plus a £10 royalty on every set of plans sold, are 13 bungalows and single-storey dwellings. Two of the designs are for semi-detached houses and five for terrace-houses; there are two which could be either detached or semi-detached, and another two which could be built as detached, semi-detached or terrace houses. In three of the designs, provision is specially made for additional rooms to be added later. Estimated costs of building these houses range from £1,900 to the maximum of £4,500 imposed by the rules of the competition.

LIST OF AWARDS

3 WINNING DESIGNS

David W. Oliver (A), 19 Lansdown-crescent, Bath.

2 WINNING DESIGNS

Michael Meacher (A), 12 Upper Marlborough-road, St. Albans.

Ronald F. Smith (A), 28 Victoria-road, Pelsall, Walsall.

1 WINNING DESIGN

J. M. Austin-Smith (F), 29 Sackville-street, W1 (in association with Mrs. I. L. E. Austin-Smith (F), P. J. Lord (A), and W. H. G. Salmon (A));

G. Grenfell Baines (A), 12-24 Guildhall-street, Preston (in association with T. Hargreaves (A), J. Wilkinson (A) and J. K. Ingham (A));

Peter J. Bell (A), The Flat, High Hall, Wickham Bishops, Essex;

Frederick Barber (F), 173 High-street, Dorking (in association with K. D. Bundy (A) and B. Greenfield (A));

A. Francis Bennett (A), 35 Queens Gate-mews, SW7 (in association with R. N. Abadie (A));

Keith Bottomley (A), 5 Bow Wood Drive, Sandbeds, Keighley;

K. P. Campbell (A), 32 Chemin Naville, Conches, Geneva, Switzerland;

Brian G. Cobb (A), 26 Clinton-street, Cambridge, Mass., USA;

Geoffrey A. Collins (A), 10 Reynolds-close, NW11;

Alan R. Deaves (A), 59 Gt. Ormond-street, WC1;

James R. Findlay (A), 44 High-street, Llandaff, Cardiff;

J. Desmond Heuval (A), Glebe End, Palmer School-road, Wokingham;

G. A. Marsh (A), 14 Marlowe Court, Ham Common, Surrey;

J. Richard Nichol (A), 3 Ashley-close, Welwyn Garden City (in association with A. M. Edwards (A));

J. E. Parsons (A), 33 Cliveden-road, Wimbledon, SW19;

J. R. C. Rowell (A), 4 Station-road, Prestwick, Ayr (in association with John Anderson (A));

Mervyn T. Seal (A), 3 Wenlock-road, Shrewsbury;

Denis Sergeant (A), 37 Linden-mansions, N6;

A. W. Strutt (A), 74 Churchdown-road, Bromley, Kent;

Stuart R. Sutcliffe (A), 129 The Birches, Three Bridges, Crawley;

H. P. Trenton (A), 32 Greenhill, High-street, NW3;

James Watson (A), 17 Glenesk-crescent, Eskbank, Midlothian;

K. G. West (A), 102 Douglas-road, Herne Bay.

Wolverhampton Civic Centre

WOLVERHAMPTON CORPORATION will consider on Monday next a recommendation that it approve in principle a proposal to erect a new Civic Centre on a 10-acre site at a cost, exclusive of land, estimated at about £750,000. The corporation is also recommended that designs should be obtained by means of an architectural competition for which premiums of £2,000, £1,000 and £500 would be offered.

The corporation has previously held an architectural competition for municipal assembly halls; this was in 1934 when the winners were Messrs. E. D. Lyons and L. Israel, whose designs were illustrated in *The Builder* of October 26 of that year.

COMPETITIONS OPEN

**The date in italics refers to the issue of* The Builder *in which fuller details appeared.*

CHURCHILL COLLEGE, CAMBRIDGE.—Competition, in two stages, for the design of College Buildings on a site at Madingley-road, Cambridge. Assessors are Sir John Cockcroft, Mr. Noel Annan (Trustees), Mr. Basil Spence, PRIBA, Sir William Holford, FRIBA, and Sir Leslie Martin, FRIBA. Stage I (for which 20 architects have been chosen) will be for outline sketches to a scale of 1/32nd. Designs in this stage will be returnable by April 13 next. Four firms in the final stage will be awarded a sum of £500 as premium and the design finally selected from these four will be regarded as the winning design, and the Trustees propose to appoint the designer as the architect for the work. Closing date for Stage I is April 13 and for Stage 2 June 29. Designs to the Secretary, Churchill College Trust, 200a City Wall House, Chiswell-street, EC1. *February 6.*

LONDON HIGHWAY DEVELOPMENT.—Two-stage competition, arranged by Roads Campaign Council, for designs as individual or joint entries from architects, engineers, surveyors, town planners, landscape architects and others, for a long-term plan of highway development in the London area. Assessors are Sir William Holford, FRIBA, Prof. W. Fisher Cassie, MInstCE, and Mr. C. D. Buchanan, ARIBA. Mr. Conrad Andren will act as professional advisor. Not more than six entries will be selected at the first stage and assessors will not know until final awards are made the identity of second stage competitors, each of whom will be awarded £250. The authors of the designs placed first, second and third will be awarded additional sums of £1,750, £750 and £250 respectively. Conditions obtainable, on deposit of £2, from the Professional Advisor, c/o 'New Ways for London Competition' Roads Campaign Council, 15 Dartmouth-street, SW1, by April 30 (preliminary stage) and October 30 (final). *November 28.*

'—Half a million in prizes, and only critics who've never seen a drawing-board allowed to enter!'

CERAMIC SANITARY WARE. — Competition organised by Associated Builders Merchants, Ltd. for architects and industrial designers to submit designs for various items of sanitary ware. Assessors are Mr. W. M. Goslett, Mr. C. J. B. Pratt, Mr. P. A. Newnham, ARIBA, and Mr. F. B. Pooley, FRIBA. The authors of the three best sets of designs will have the opportunity of collaborating with a manufacturer to be nominated by ABM Ltd., to produce full-size prototypes of the items they have designed. The final award will be made on the basis of the developed prototypes. Premiums offered: £1,000, £350 and £250 for designs placed first, second and third respectively. Final date for submission of drawings is May 2. Conditions from Associated Builders Merchants, Limited, at Broken Wharf, Upper Thames-street, EC4. Applications by March 9. *November 21.*

NATIONAL GALLERY EXTENSION.—Competition for the design of conjectural extension of the National Gallery on the 'Hampton' site to the west of the Gallery. Open to architects on ARCUK Register, and architects who are members of Allied Societies of the RIBA within the Commonwealth and RIBA students. First prize is £2,500, with a further £2,500 for distribution as the assessors advise. The assessors are Sir William Holford, Mr. W. A. Allen and Mr. Peter Chamberlin. The closing date for designs is May 8 (last day for applications April 6); and conditions from 'National Gallery Competition,' *The Sunday Times*, Kemsley House, WC1. *January 23.*

ELEVATED MOTORWAY.—Competition organised by the Prestressed Concrete Development Group, open to individuals or groups of individuals for designs for lengths of elevated road. Two premiums of £500 are offered, to be awarded at the discretion of the assessors who are—Mr. H. C. Adams, Ministry of Transport; Mr. C. P. Andrew, Traffic Engineer, University College, London; Mr. A. G. Jury, City Architect, Glasgow; Col. G. W. Kirkland, president of the Group; Sir Herbert Manzoni, City Engineer, Birmingham. Closing date June 30 next. Details from the Prestressed Concrete Development Group, Terminal House, Grosvenor-gardens, SW1. *January 23.*

ALUMINIUM STREET LIGHTING COLUMNS.—Competition organised by the Aluminium Development Association for lighting specialists, architects, industrial designers, engineers and other individuals and groups in open competition to submit designs for aluminium street lighting columns. Assessors are The Hon. Lionel Brett, FRIBA, Prof. Sir Alfred Pugsley, FRS, and Sir Gordon Russell, RDI. Prizes of £250, £100 and £50, with a student's prize of £75, are offered. Conditions and specification from the Secretary, the Aluminium Development Association, 33 Grosvenor-st., W1, to whom designs must be returned by mid-day on July 1 next. *March 13.*

RICS Gold Medal and Prize, 1956

PAPERS SUBMITTED for the Chartered Surveyors Gold Medal and Prize, 1959, must be received at the RICS, 12 Great George-street, Parliament Square, SW1, by not later than Thursday, April 30.

The competition is open to any person normally resident in the British Commonwealth or the Republic of Ireland. The subjects on which papers may be submitted are:—(1) 'The Place of Agriculture in Land Economy'; (2) 'The Realisation of Positive Town Planning'; (3) 'The Costs of Building' and (4) 'The Influence of Legislation upon Land Development.'

The model from the south

DEVELOPMENT of the Zoological Gardens, Regents Park, London

Architects:
Sir HUGH CASSON, MA, RDI, FRIBA

in association with
F. A. P. STENGELHOFEN, LRIBA
Architect to the Zoological Society

Landscape Consultant:
PETER SHEPHEARD, ARIBA, AMTPI, FILA

THIS 'esquisse' plan has been accepted by the Council of the Society after long and detailed discussion with the public authorities concerned. As now submitted, the plan is considered practicable and its first phase is well under way. Preparations for the second and third phases, both architectural and financial, have been started.

The Zoo is cut into three by the Outer Circle and the Regent's Canal. The present placing of bridges and entrances does not help to provide a natural flow of traffic, so that serious congestion occurs on crowded days at certain points. To the road the Zoo in general presents railings and the backs of buildings, and on the Park side its boundary is unsympathetic to the soft landscape of the Park. A very large and valuable collection of animals is contained in a comparatively small area.

The object of the new plan is to correct these defects.

An informal layout has been adopted which gives opportunities for contrasting enclosure and open space, for providing constantly changing views in the grouping, bulk and silhouette of buildings and which permits development to be carried on in stages and by different architectural hands.

No proposals are made in the present plan as to the architectural appearance of the new buildings or to the detailed design of steps and paving. This will be the responsibility of the architects who will be appointed to execute the work.

The present southern boundary of the Zoo consists of a high railing which runs more or less straight across the Park and forms a harsh, unsympathetic line. Discussions are now in progress with the Ministry of Works and the Crown Estate Commissioners, both of whom are concerned, about the changes necessary to landscape the area in which Park and Zoo meet, so that Zoo and Park may appear as one. This conception is illustrated on the plan and model where, although the actual boundary of the Zoo—shown by a white dotted line—remains as at present, the natural features are shown as continuous on both sides of the border. Wherever possible it is intended to replace the iron railings by ditches or by obstacles in the water itself, so that members of the public will have a view into the Zoo from the Park, and vice versa.

Behind this boundary the scheme involves the creation of a number of different areas within the Zoo, each with a distinct character. Some of these areas exist already and have a character which only needs developing; for example, the area between the Mappin Terraces, the Reptile House and the Mappin Restaurant. Other areas are entirely new.

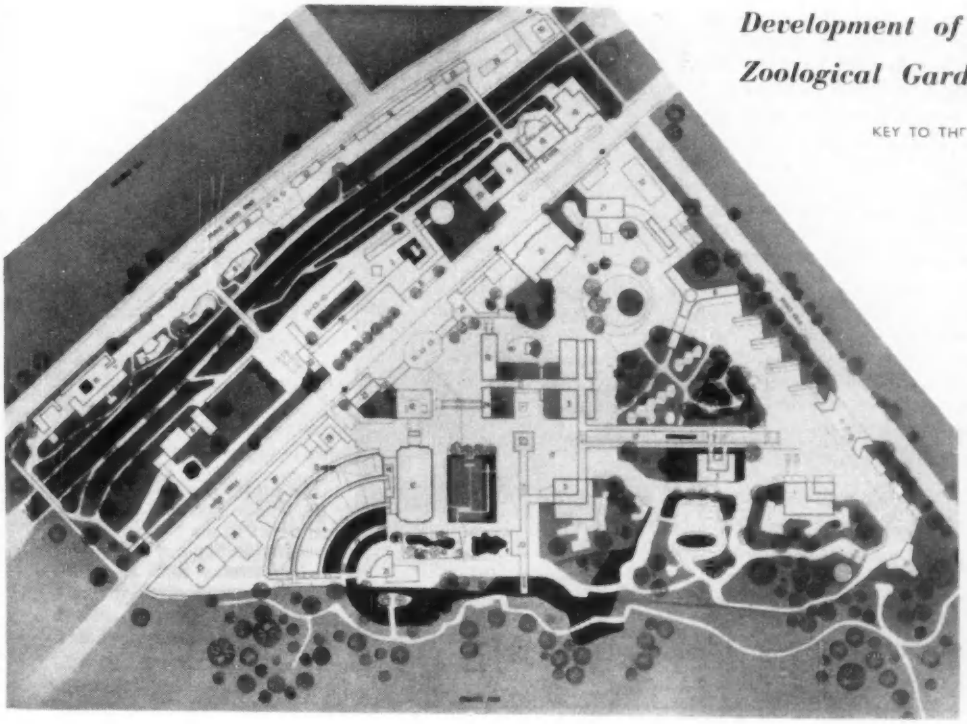
The buildings north of the canal are kept small in scale and the main effort is devoted to the improvement of the canal banks, which could be made outstandingly attractive. The North Gate is moved to a more central position near a new bridge, which is flanked by a new aviary and a 'pit' or 'quarry'. A new Children's Zoo is sited in the north west corner, and its small scale buildings are grouped around a series of connected courtyards to give a sense of intimacy and protection. It is hoped to erect an 'animal bridge' spanning the canal and connecting the paddocks on the north and south sides.

The robust Giraffe House in the Middle Gardens which was built by Decimus Burton is to be kept and its character reinforced by additions. A series of new buildings and enclosures is planned for small mammals.

The administration and educational centre will include a new meeting room and offices, an exhibition foyer to the cinema, a television centre and a lecture theatre.

In the main gardens the main entrance from the Outer

Development of the Zoological Gardens, London



KEY TO THE PLAN AND THE MODEL

1 cats, great and small
2 small mammals
3 apes and monkeys
4a bears
4b sea lions
4c dogs and foxes
5 elephants, rhinos, hippos
6 giraffes, zebras, sheep
7 antelopes and cattle
8 small birds
9 medium and large birds
10 water birds
11 parrots and birds of prey
12 reptiles
13 aquarium
14 invertebrates
15 seals and whales
16 children's zoo
17 arena and animal rides
18 administration
19 education
20 television and film unit
21 catering
22 lavatories
23 staff housing
24 zoo shop
25 hospital
26 works
27 supplies
28 garages
29 gardeners'
30 social club
31 staff car park
32 spare

Circle is to be moved, and the new one will open on to a 'pausing space' from which the visitor can see down a broad piazza to the Park.

The Decimus Burton terrace and steps, which already form a viewing platform from which one can see most of the Zoo, are used as the start of one end of a system of walkways. The elevated route connects up a number of the major animal houses. The walkways penetrate the houses and give views of the animals from a high level.

The area between the Mappin Terraces and the Outer Circle is devoted to the Hospital, Laboratories, the Works, the Supplies Department and the Incinerator Yard. These buildings constitute the first phase of the plan.

The first phase is well on the way to completion. The new Hospital has been built; the new Works Department and Incinerator Yard are nearing completion; and work will start shortly on the new Supplies building and Garages behind the Mappin Terraces.

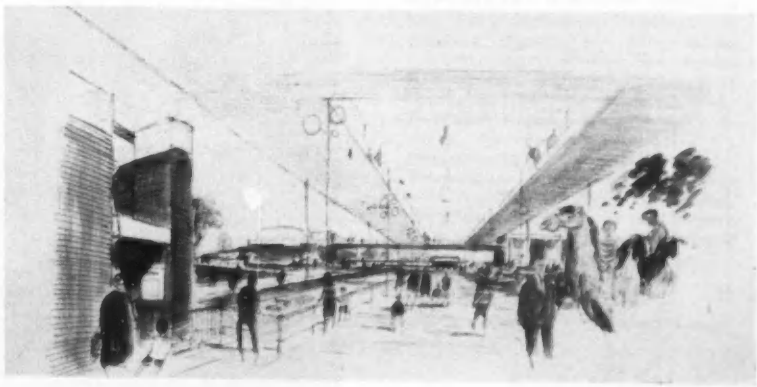
The second phase, which will begin later this year and which will overlap Phase I, will be the demolition of the old Works Yard and Garage area in the Middle Gardens and the construction there of paddocks and shelters which will extend on to the south bank of the canal, and to which the stock from the Antelope House will then be transferred.

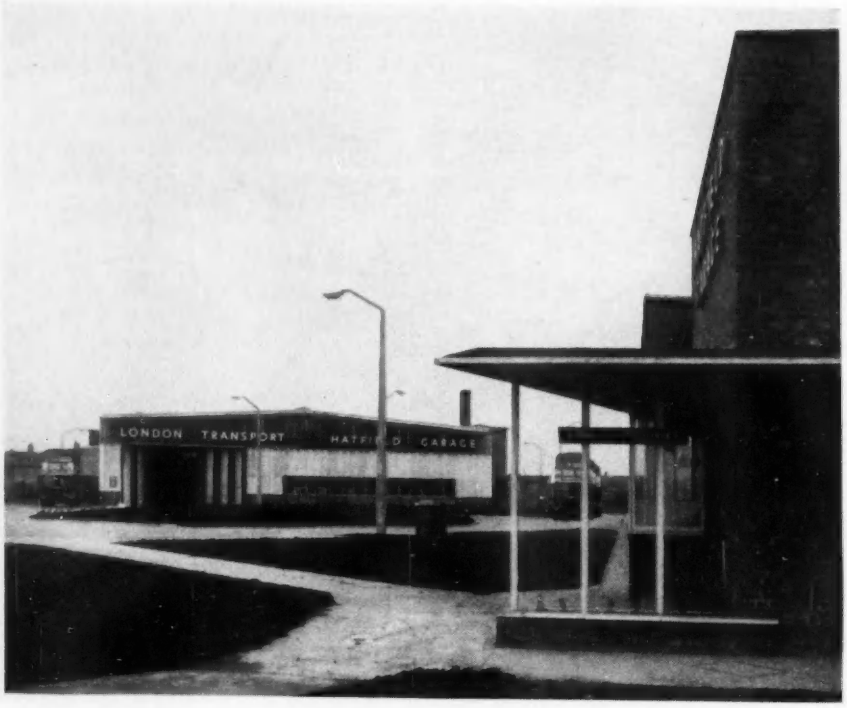
The third phase will start in 1960. The present Antelope House will be demolished and the site used for an Elephant House.

This is as far as it has been possible to plan in detail at present. Thereafter some portion of the grounds will be set aside each year for rebuilding in accordance with the Master Plan, which will take not less than ten years to achieve.

A sketch showing how it is planned to link the Zoo with Regent's Park. This view is from the park looking north into the Zoo and will replace the present vista of railings and the backs of buildings

A number of elevated walkways will join up the main gates and some of the more popular animal houses. This sketch shows the Broadwalk from ground level. The walks will also provide some weather protection





The garage seen from the St. Albans-road with the entrance to the public inquiry vestibule of the administration block in the foreground

GARAGE at Hatfield for London Transport

Designed by:

THOMAS BILBOW, FRIBA,

Architect to London Transport

A. A. M. DURRANT, CBE, MIMechE, MInstT,

Chief Mechanical Engineer (Road Services)

General Contractor:

C. MISKIN & Sons, Ltd.

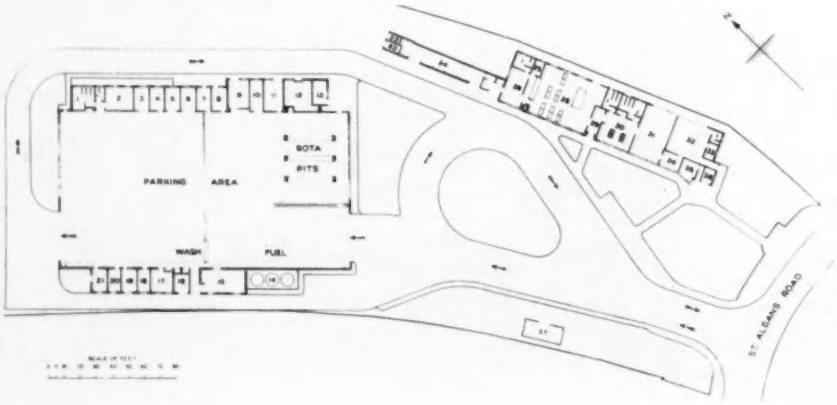
THIS is the first garage to be built by London Transport to a new design specially evolved for use in country areas.

The new garage is in St. Albans-road, almost opposite the old garage, which had become too small to deal with the expanded services needed to cater for the New Town at Hatfield and the growing Welwyn Garden City.

The design, which is intended for use anywhere in the country area, and particularly where a garage is needed in one of the New Towns, provides for a covered parking area flanked by workshops and stores, with administrative offices and a public inquiry office housed in a separate single-storey building. This building will normally have a frontage on the main road, but can be sited at any angle according to the space available. At Hatfield it presents one end to St. Albans-road.

The covered bus park provides a clear floor space 185 ft. x 98 ft., sufficient to take 49 buses, and the design provides for a further 16 vehicles to park in the open, thus

GROUND FLOOR AND SITE PLAN



KEY

1 Lavatories
2 Locker room
3 Accumulator room
4 Electricians' shop
5 Painters' and coach builders' shop
6 Machine area
7 First aid room
8 Garage engineer
9 Tyre store
10 Main store
11 Oil store
12 Boiler room
13 Oil tank room
14 Fuel oil tanks
15 Machines and switches
16 Incinerator
17 Washers' drying room
18 Washers' stores
19 Blinds—advertisements
20 Day and night foremen
21 Women's changing room
22 Rubbish
23 Sand
24 Cycles
25 Store
26 Kitchen
27 Canteen office
28 Canteen and recreation room
29 Notice lobby
30 Notices and locker room
31 Conductors' room
32 Traffic office
33 Ticket store
34 Charge depot inspector
35 Chief inspector
36 Public inquiry vestibule
37 Transformer

giving the garage a total capacity of 65 buses. A garage of this capacity has been demonstrated to be the smallest that can use flow-line servicing and washing methods while affording sufficient room for vehicles to manoeuvre.

This main parking area is spanned by tubular steel trusses, 98 ft. in length, with no central supports to impede vehicle movement. Above a low brick wall, the building is clad with vertical asbestos sheeting. The roof is covered with a 5-degree pitch asbestos-cement trough construction. Natural lighting is provided by vertical glazing at high level round the building augmented by a long central roof light. The buildings flanking the main covered parking area are in straw coloured bricks, and the leaves of the main doors of the garage are painted alternately in red and turquoise.

London Transport's standard equipment for automatic refuelling, lubricating, and vacuum cleaning is provided, as well as an 'Essex' bus-washing machine and 'Eco' roof washer. The fuelling points are supplied with diesel oil from three 5,000 gallon overground tanks in the open alongside the parking area wall. The usual compressed air ring main is provided.

The pit area at one end of the building is enclosed on two sides by the outer walls and on a third by a glazed screen 17 ft. 6 in. in height. The fourth side is open to the main parking area. The three pits are heated throughout their length and are fitted with fluorescent lighting. This type of lighting is installed throughout the parking area and the various shops. A central channel provides drainage for the area, and passes beneath the bus-washing machine.

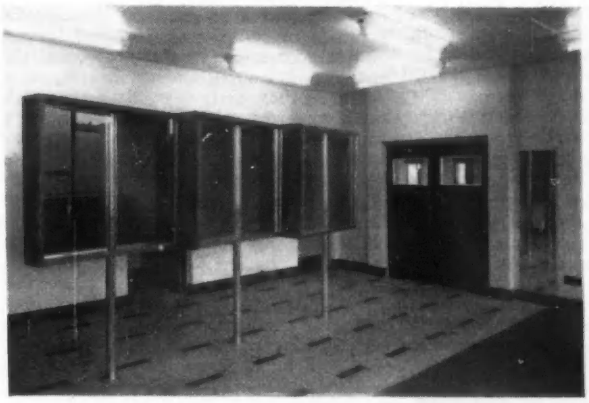
The dado of the parking area is painted maroon, and the main tubular stanchions and trusses are finished in aluminium paint, with alternate trusses picked out in blue. All mechanical equipment is painted in blue.

The single-storey administrative block on the east side of the forecourt is built in sand-faced multi-coloured bricks. The main roof is single-pitched with front overhanging eaves and terminates with a short tower incorporating a London Transport 'bullseye' mast sign at the St. Albans-road end. This feature draws attention to the entrance to the public inquiry vestibule.

The operating accommodation incorporates many new features, including special 'staggered' notice cases in the entrance to the conductors' paying-in room. These give easier access and more room for staff reading the notices than the conventional type. The public inquiries vestibule has an inquiry hatch opening on to the traffic office. The hatch is set in decorative coloured tiles.

Rooms which have a south-east aspect are provided with sun-blinds and the whole building is illuminated by means of fluorescent lighting positioned in coloured ceiling panels. The block also contains a combined staff canteen and recreation room.

The former garage at Hatfield, which is being offered for sale, was opened by the London General Omnibus Company in 1922, services being operated for the London General Omnibus Company by the National Omnibus & Transport Company. It was extended in 1925 and again in 1935 and is now capable of accommodating 22 vehicles under cover.



The vestibule to the conductors' paying-in room showing the special staggered notice cases which are double sided

Garage at Hatfield

The interior of the paying-in room with the counter of the traffic office beyond

Sub-contractors and Suppliers:

Asbestos roofing, Brock Roofing, Ltd. (Universal contractor); *patent glazing*, The British Challenge Glazing Co.; *asphalt roofing*, Highways Construction, Ltd.; *floor and wall tiling*, Walter Taylor (Belmont), Ltd.; *metal windows*, The Senlac Metal Casements, Ltd.; *plastic floor and wall finishes*, Regent Surfaces Co., Ltd.; *suspended ceilings*, Sundeala Board Co., Ltd.; *venetian blinds*, Tidmarsh & Sons; *terrazzo*, Art Pavements & Decorations, Ltd.; *roller shutter*, G. Brady & Co.; *linoleum*, Inlaid Rubolin Flooring, Ltd.; *manhole covers, etc.*, Broads Manufacturing Co., Ltd.; *cat ladders, etc.*, The Luco Art Metal Co.; *chain link fencing*, Fencing (Shepperton), Ltd.; *fascia lettering*, F. B. Hall & Co.; *felt roofing*, D. Anderson & Son, Ltd.; *ironmongery*, Lockerbie & Wilkinson (Birmingham), Ltd.; *lighting standards*, Concrete Utilities, Ltd.; *joinery*, R. Cattle, Ltd.; *lightning conductors*, R. C. Cutting & Co., Ltd.; *paint suppliers*, Hadfields (Merton), Ltd.; *heating contractors*, Messrs. George Roberts & Co. (Engineers, Ltd.); *parking area steelwork*, Tubewrights, Ltd.; *operating and welfare block steelwork*, Dawnays, Ltd.; '*Bison*' *floors*, Concrete, Ltd.; *rod reinforcement*, Rom River Co., Ltd.; *mesh reinforcement*, Square Grip Reinforcement Co., Ltd.

TWO NOTABLE RETIREMENTS

The chief administrative officers of two institutions in the building industry retire from service at the end of this month—Sir Alexander Killick as Secretary of the Royal Institution of Chartered Surveyors ; Mr. Stanley Hearder as Director of the National Federation of Building Trades Employers. Mr. C. D. Spragg, Secretary of the RIBA, follows them in July next. We print below tributes to Sir Alexander and to Mr. Hearder from, respectively, Mr. Alan Davson, OBE, FRICS, and Sir Robert Lloyd, Past-President NFBTE.

SIR ALEXANDER KILLICK, CBE, DSO, MC, MA, Hon. Mem. RICS

SIR ALEXANDER KILLICK retires from the Secretaryship of the Royal Institution of Chartered Surveyors on April 1 after twenty-seven years of devoted service, broken only by six years when he was seconded to the War Office and was entrusted by the Army Council with the formation of the Army Council Secretariat, whose work he guided and directed as Joint Secretary (Military) until September, 1945.

During the period in which Killick held office, industrialisation with its corollary of specialisation was increasing in industry and impinging on the work of professional bodies. This specialisation was felt in many ways. It did not affect solicitors or accountants in their training but after qualification many specialised in certain aspects of their work. Amongst engineers, on the other hand, as the profession grew as a whole in size and diversity one professional body yielded to several, such as the Institutions of Civil, Mechanical and Electrical Engineers, and students took the examinations most suitable to the calling they intended to pursue.

Under the general term 'Surveyor', the Surveyors' Institution, the Land Agents' Society and the Auctioneers' Institute have developed. The membership of the Surveyors' Institution at its foundation consisted of building surveyors and surveyors and land agents of big estates. Its founders drew the Charter on very broad lines, evidently realising the scope and diversity of the activities which could develop under the general term 'Surveyor'. Thus, when Major Killick took over as Secretary in 1932 the Institution was fewer than 8,000 strong ; the diversity of the surveyor's work was just becoming evident but there was no broad plan of development.

Killick in his early days, amongst other things, devoted himself to assessing the position, to studying his Council, the Charter, the significance of the Branches and the Divisions and the growing strength of the Junior Organisation. It was not, however, until he returned from service as a Brigadier and was invited by the Council to read to members a paper giving his appreciation of the state of the Institution and a forecast of the future that those who heard and read this paper fully realised the balance, foresight, organising ability, drive, humanity and sense of humour of this dynamic little man.

Time has proved how wise were his words, how sound his forecast and how fruitful his efforts to fulfil the aims of the founders and the Council which he portrayed in broad terms in this paper. He retires with the Institution now some 22,000 strong, combining eight very diverse interests, covering the whole field of the surveyor's work including, of course, building surveyors and quantity surveyors who are all working together in the belief that in combination they can serve the public and their own interests better than as separate organisations.

Sir Alexander has fostered this spirit and has made the Institution his life. In fact he impaired his health in its service. He has made himself *persona grata* with all and sundry within and outside the Institution. He never forgets a name or a face and he has the facility with all whom he meets both at home and abroad to make them feel that their problem is his own.

His many friends wish him a complete return to full health, enough interests to keep that active and alive mind happy, and they would remind him that whilst the official link will now be broken the multitude of friendships he has made will always endure.

ALAN DAVSON.

Sir Alexander Killick, CBE, DSO, Hon. Mem. RICS, after the portrait painted by Norman Hepple, ARA

STANLEY HEARDER

THE end of this month brings to a close the services of Mr. Stanley Hearder as Director of the National Federation of Building Trades Employers. At this time we look back over the last 14 years ; for he joined the Federation as its official leader in 1945, the year when we saw the victorious armies of the West march in victory to Berlin and beyond.

Mr. Stanley Hearder

I am sure we should look back over these difficult years with a great deal of appreciation for the services he has rendered. He joined the National Federation at a time when the paths it had to tread were uncharted. The General Election saw a Socialist Government appointed, and we were very soon to experience an attitude unfriendly to free enterprise ; although members experienced full employment, many problems cropped up through the shortage of skilled and unskilled labour, and the continuing trials of new and old controls.

During these early days of the Director's work members realised his wisdom as a counsellor ; and his knowledge of the Civil Service proved invaluable on all occasions when he represented the considered policy of the National Council to Government Departments, where he always received a patient hearing. In those steps that led to legislation enacted with regard to compulsory purchase of land, such as The Town and Country Planning Act of 1947 and other measures, he always represented with wisdom and understanding the private enterprise builder's point of view. As an example, he got considerable advantage in the 'near ripe' concession during the passage of the Town and Country Planning Bill.

I do not suppose in the history of our Federation there was ever a time when the need for so much pleading to Governmental Departments made itself more felt than during the early years after the War, and our National Director never failed to get audience with Ministers and Principals of the various Ministries with whom we work to plead the cause of the builder.

The work of the Federation's Public Relations Department was ably led during those early years when a proper presentation of the builder's work was made to the public at large. This was one of Stanley Hearder's strong points. The round-the-country perambulations of our National Presidents, accompanied by our National Director and Mrs. Hearder, have played an important part in consolidating membership during the last 14 years, and to this end we pay him the highest tribute.

In the important work of the National Joint Council he has always acted as a wise counsellor, and it is a compliment to him and the Operatives' leaders that the industry has enjoyed peace and freedom from countrywide disputes.

Having served in the office of National President I am able to write these few lines with experience of the unswerving loyalty and devotion of Stanley Hearder to the Federation as a whole. To be accompanied round the country by 'the little man' as some of his friends know him, gave me great joy and pleasure, because he was always ready to give wise counsel and was indeed on more than one occasion a sheet anchor to me.

The success of any national organisation cannot be easily measured apart from the men who serve it, and I like to look upon the stature which the Federation has achieved today as being high among those of other comparable industries. We can be proud of a well organised National Federation and 10 healthy regions throughout the country. This is no mean achievement and, as Mr. Stanley Hearder passes from the scene of our activities, it will bring a tinge of regret to thousands of our members.

I am sure they all join me in wishing him and Mrs. Hearder a very happy retirement and we say 'thank you' to them both for their loyalty and devoted service.

ROBERT O. LLOYD.

CORRESPONDENCE

Lutyens on the Screen ?

To the Editor of *The Builder*

SIR,—What a very attractive idea you have suggested in your leading article of February 27 that Lutyens offers all the material for a good film!

It is often wisdom to defer a biography for many years, that the picture may find its focus, but this is no such case and the story is the richer while personal memories are fresh. Many place him as second only to Wren, and it is remarkable that in a generation rich in eminent architects he should have towered so far above his fellows.

Lutyens was no 'talker,' but what he said contained more wit and wisdom than one could hope to compress into volumes. And what better scenes could be chosen than his works which have settled into the landscape amid the matured gardens designed for their setting.

G. MAXWELL AYLWIN [FRIBA].

26 West-street, Farnham, Surrey.

Standard Method of Measurement

To the Editor of *The Builder*

SIR,—In reply to Mr. G. W. Forde's letter in *The Builder* of March 6, I would like to point out that there appear to have been no fewer than four past editions, with one in hand, of the SMM since its evolution under the auspices of the Standing Joint Committee which represents the parties concerned, with practical revisions for the benefit of the estimator. Therefore, in the light of these periodic changes, it can hardly be called 'outmoded.'

Surely this forms a basis for 'standardisation' complete with method without dismembering the art from the science of Quantity Surveying. Standard descriptions would tend to overshadow the democratic right of self-expression and lead to the ludicrous thought (analogous to cutting the cloth to suit the peg rather than the individual) of virtually filling in the blanks instead of taking-off by today's accepted standards.

GEORGE B. OTTLEY.

58 Hawarden-street, Bolton, Lancs.

To the Editor of *The Builder*

SIR,—As a staunch but impatient supporter for many years of the proposal to introduce the metric system and decimal coinage into this country—staunch because the world has no better system than the metric to offer, and impatient because every decade appears to find us Britishers thinking again more seriously about it (as at the moment, not without some courage, is the Metric Committee of The British Association) yet doing little or nothing towards converting the unbelievers—I read Mr. Berry's letter in *The Builder* of March 13 with interest. Assuredly, both the metric and decimal coinage systems will be adopted one day, perhaps the latter in the van and for good reason; the more decimal-minded we become as a nation through first using coins in decimal units the easier it will be for the public later to absorb the metric measures of length, etc., mass and capacity.

Until this comes about, and in reply to Mr. Berry, may I suggest the following which I have been advocating for some years now and which is one form of decimalising the Imperial measure of the *foot*.

Incidentally the method is now under consideration as an alternative presumably, by the BA Metric Committee, to the adoption in full of the metric system:

> 'Adoption of 100 feet as the unit for quantities expressed in length, super, and cube, i.e., instead of reducing measurements taken in feet run by dividing by 3, 9, and 27 to arrive at yards linear, super or cube as now, the divisor to be always 100 thus producing units and decimals of units as desired for the three dimensions as before.'

Space will not permit me to pursue the advantages in billing quantities and the like (and are not all the estimating data given in price-books, etc., quoted in decimals already?) or the possibilities of adopting 10 parts (call them inches if you like) of the foot and so on universally, instead of keeping the idea as a mysterious technique for use by the land surveyor or by those who come to do some levelling, although this has been going on for well into two centuries. However, it is encouraging news to hear that some use or similar use is being made of the unit in India and Persia.

I already know of one masonry contractor in the South of England who is using throughout his works a decimalised system of measurement coupled with all his costing, wages, etc., this being carried out in shillings and decimals of the shilling. The latter, as Mr. Berry suggests, has proved of considerable use.

I leave the last two paragraphs of Mr. Berry's interesting letter to more competent correspondents who may be able to comment on USA practice in trade analysis.

GEORGE E. ALCOCK [AIOB, FIQS].

30 Christchurch Park, Sutton, Surrey.

Special Scaffolding

To the Editor of *The Builder*

SIR,—The inquiry by F. F. P. (*The Builder* Inquiry Bureau, February 20) regarding special scaffolding makes me wonder if there is perhaps more to be considered than the legal correspondent suggests. A number of suggestions present themselves:—

(a) If the specialists were nominated by name in the bills of quantities as well as the work being covered by a p.c. or provisional sum and bearing in mind the covering clause inserted in the bills of quantities regarding special scaffolding, surely the builder, when pricing, should have made sure what special scaffolding the sub-contractors would require? To my mind, if these circumstances prevailed then the main contractor is responsible for inserting insufficient cover for the special scaffolding as he had sufficient information to enable him to find out the special circumstances before his tender was submitted. It would surely be no excuse for a claim because he did not bother to inquire.

(b) Did the specialists when quoting make clear the unusual scaffolding required? If not, why not? It may have been that the cost of this quotation plus the special scaffolding would be more than the second quotation plus the scaffolding (perhaps in the second case not so special) required.

(c) If the specialists were not named in the bill and the builder had allowed for scaffolding which is normal for the type of work described, and which he knows has been used in similar circumstances, then why let the specialists get away with demands which are unfair and unwarranted? The architect could sort this one out.

My point is that whatever the position why should the client now have to pay this extra money when in the case of

(a) the builder is responsible;

(b), the architect and/or the quantity surveyor take some of the blame; and

(c), the specialist's demands are unwarranted and should be resisted or the specialists replaced.

C. J. W. PARKER.

2 Weir Hall-gardens, N18.

The Work Study Film

To the Editor of *The Builder*

SIR,—Is Work Study 'more than mere applied common sense,' as you asked in your comment on that work study film? Mr. Hayman (*The Builder* of March 13) says 'No. It is in fact just that.'

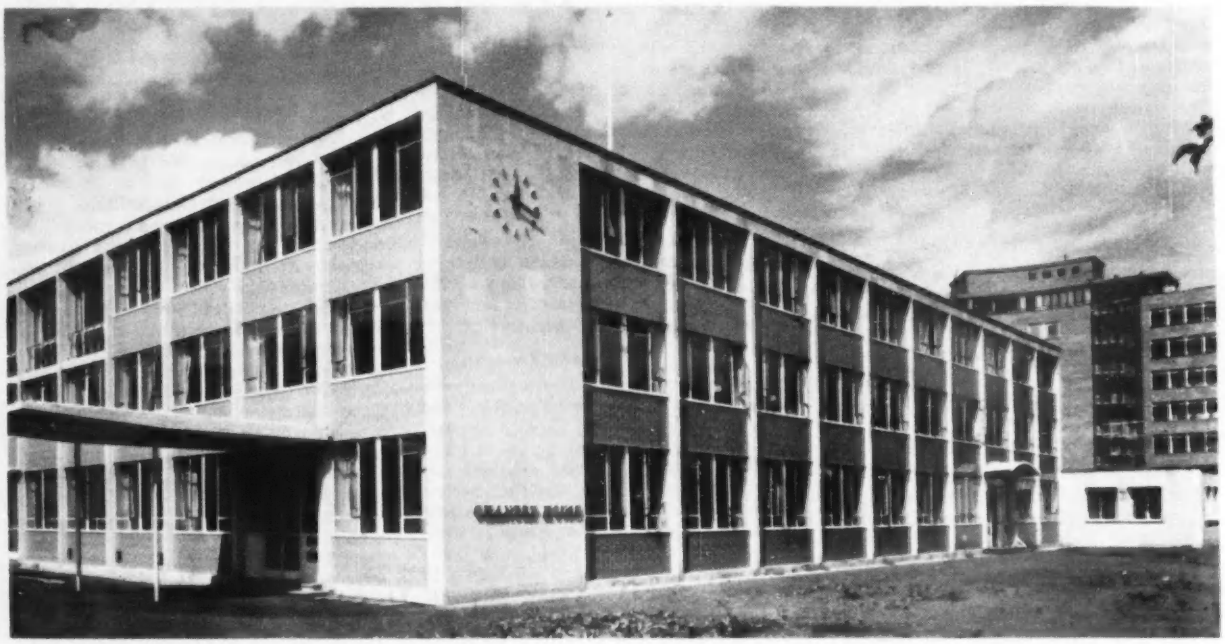
The British Productivity Council does not agree. For in its printed discussion notes for circulation with the film it has this note—'How would you answer the view that work study is no more than applied common sense?'

Who then is right?

Mr. Hayman is right in one particular. If in the beginning the building contractor in the film had said—'I saw something about it in *The Builder*' or 'in one of the building papers' no one would have batted an eyelid.

DAVID GRAHAM.

Finchley-road, NW3.



The south and east elevations

OFFICES at Wembley, Middlesex

Designed by :
THE MINISTRY OF WORKS
E. H. BANKS, FRIBA, FRSA, Senior Architect
A. M. PALMER, BSc, AMIHVE, Senior Engineer

General Contractor:
J. M. HILL & Son, Ltd.

THIS new office block has been completed at Wembley to provide accommodation for local services of various Government departments previously housed in requisitioned properties. A total of 155 staff were involved in the transfer.

The site, of 1.23 acres, is set back from the private road known as Olympic Way and was acquired from the Wembley Trust, Ltd.

The gross floor area of the building is 24,000 sq. ft., and the net area is 18,000 sq. ft. Of this, the Ministry of Labour & National Service occupies approximately 3,500 sq. ft., the Ministry of Pensions & National Insurance 3,000 sq. ft., the National Assistance Board 2,600 sq. ft., the Inland Revenue 6,800 sq. ft., and common usage totals 1,800 sq. ft.

A view of the rear elevations of the two main wings. The staff entrance is at the base of the slightly convex staircase tower

The areas open to the public have counters planned in large, open 'banking halls' and are light and airy in conception. Entrances have been arranged to obviate confusion of public circulation to several departments.

Erection, inclusive of Engineers' and Controller of Supplies services, was completed at a cost of £112,600, or £4 13s. 10d. per ft. super. The price per ft. cube is fixed at 5s. 4d.

At the time of the Wembley Exhibition the site was mainly a boating lake which had since been filled with clay to a depth of 6 ft. Piling, therefore, was found necessary and was carried out to an average depth of 40 ft., other than for the wing over the basement where treatment was by spread foundations. Bored piles were used to minimise interference with transmission from adjacent television studios. The basement was tanked with asphalt.

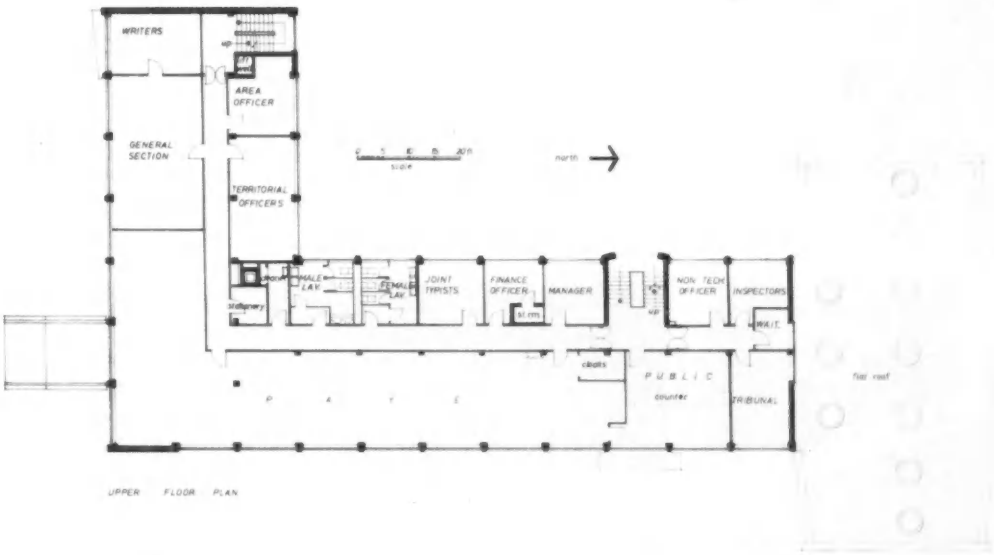
The structure is a normal r.c. frame construction with hollow tile slabs on three floors. The wing containing the Ministry of Labour's public space is a single storey structure only. The building has a bituminous felt covered flat roof and is finished, externally, with glazed tile window spandrels and Portland-stone facing slabs to the frame on the main elevations. Main entrance floors and lower staircase flights are surfaced with terrazzo, whilst floors in offices and public spaces are finished with linoleum.

Central heating is by low pressure hot water, using cast iron hospital-type radiators. The sectional case iron boiler is oil-fired and fully automatic. Room temperatures are kept constant by thermostat. Domestic hot water is from an indirect cylinder which is heated, in summer, by a coke boiler and, in winter, by suitable connexions to the main boiler.

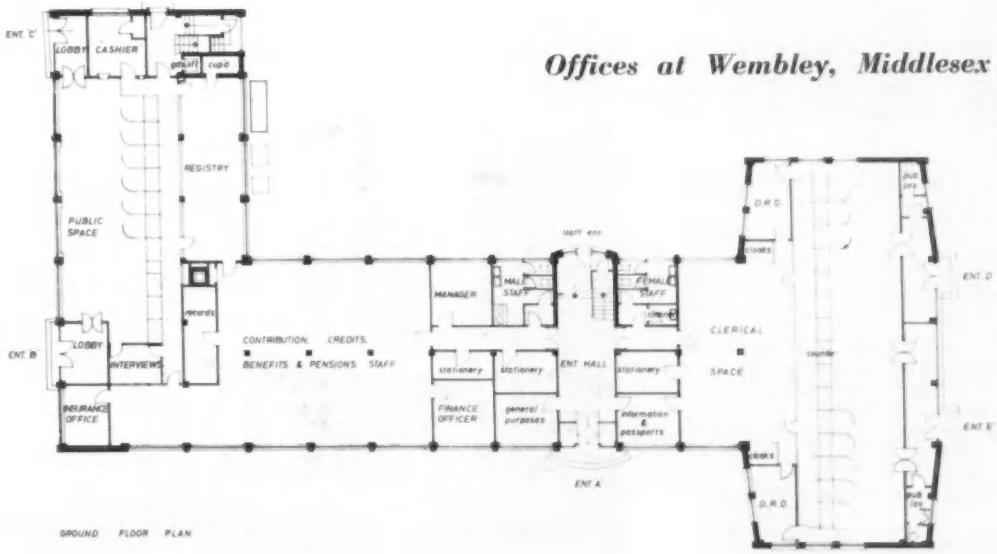
In general, tungsten lighting is used, with opal glass acorn fittings on chain suspension. In public spaces, however, other fittings to the architect's selection have been provided.

Sub-contractors and Suppliers :

Piling, Soil Mechanics, Ltd. ; *asphalt tanking*, General Asphalte, Ltd. ; *metal doors and windows*, J. Gibbons, Ltd. ; *felt roofing*, Associated Asphalte, Ltd. ; *pavement lights*, J. A. King & Co. ; *dome lights*, Aygee, Ltd. ; *flush doors*, J. Sadd & Sons ; *heating and hot water*, J. Combe, Ltd. ; *electrical installation*, Iversons, Ltd. ; *service lifts*, Evans Lifts, Ltd. ; *sanitary fittings*, J. Bolding & Sons ; *acoustic ceiling*, Newalls Insulation ; *terrazzo work*, Alan Milne, Ltd. ; *wrought iron balustrades*, A. W. Gray ; *electric mains*, Eastern Electric Board ; *gas main*, North Thames Gas Board ; *cycle stands*, Constructors, Ltd. ; *gates and fences*, Vardale Fencing Co., Ltd. ; *ironmongery*, Froy, Ltd. ; *flagstaff*, T. W. Perrott.



UPPER FLOOR PLAN



GROUND FLOOR PLAN

Offices at Wembley, Middlesex

THE CORN EXCHANGE, Liverpool

Architect:
H. HINCHCLIFFE DAVIES, ARIBA
(HAROLD E. DAVIES & SON)

Consulting Engineers:
SCOTT & WILSON, KIRKPATRICK & Partners

Heating and Ventilating Consultants:
ERNEST GRIFFITHS and Son

Quantity Surveyors:
EDMUND KIRBY and Sons

General Contractors:
TYSONS (Contractors) Ltd.

THE new Corn Exchange in Liverpool replaces the old building which was completely destroyed in an air-raid in May 1941. It is a reinforced concrete-framed structure placed on a wedge-shaped site, bounded by streets on all four sides and has three entrances: one from Drury-lane to the west, one from Brunswick-street to the north, and a third from Fenwick-street to the east.

The main accommodation is centred in the lower part of the building which, owing to the slope of the site, is three storeys high at the Drury-lane entrance and two storeys high at the Fenwick-street entrance. This lower part of the building extends over the whole site and consists of a first floor, ground floor and lower ground floor; there is also a basement containing a bonded store.

At first floor level the building sets back in an I-shaped plan and rises for a further seven storeys. This block is designed to include three more storeys which will be added at a later date, and which are considered to be aesthetically important to the external proportions of the building.

The principal accommodation follows the lines of the old Corn Exchange and is placed at ground floor level. It consists mainly of the Spot Market, which is used for trading in grain of every kind, and the News Room. Apart from these two main elements, there is also a Members' Room which connects with the News Room. The remainder of the first, ground and lower floors is taken up with shops, showrooms and offices.

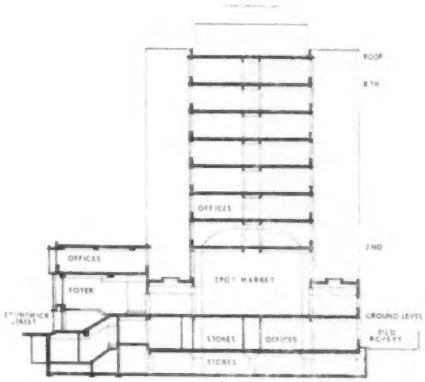
The tall I-shaped block above first-floor level is rented out in offices, apart from the top floor which contains a suite of offices and committee rooms for the Corn Trade Association.

The reinforced concrete framework of the tall office block is arranged with two rows of columns down the central corridor. This was found to be more economical than spanning the entire 46 ft. width of the block with deep beams. It was impossible, however, to carry these columns down to ground floor level as large uninterrupted floor areas were required in the Spot Market and News Room. The two central rows of columns are therefore carried above these rooms by four pre-stressed concrete tied arches, which transfer the concentrated loads over the 46 ft. span to the external columns. The arches are designed as an integral part of the supporting columns below, and extend from the second to the third floor. They are pre-stressed on the Freyssinet system, each arch having nineteen cables each made up of twelve 0.276 in. diameter wires; each tie has twelve such cables.

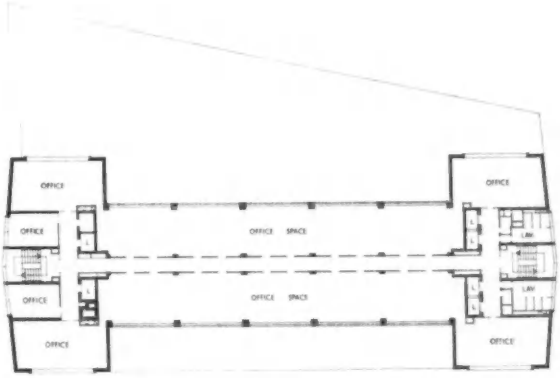
above: *A detail of the Drury-lane entrance*

right: *A view from the south across Drury-lane and the car park which has been acquired by the building owners and may be used for multi-storey parking scheme in the future*

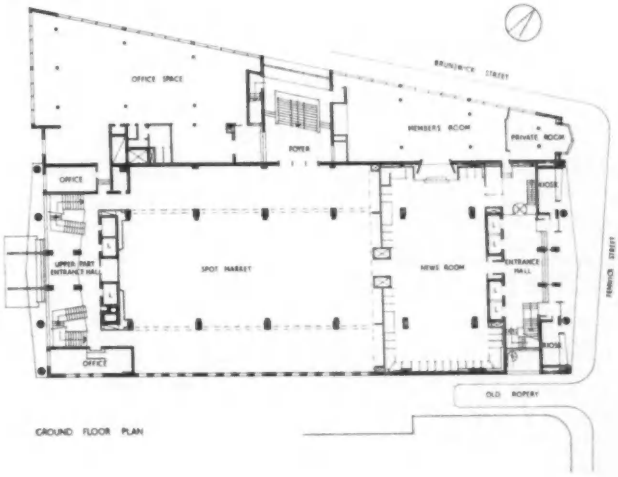
The Corn Exchange, Liverpool



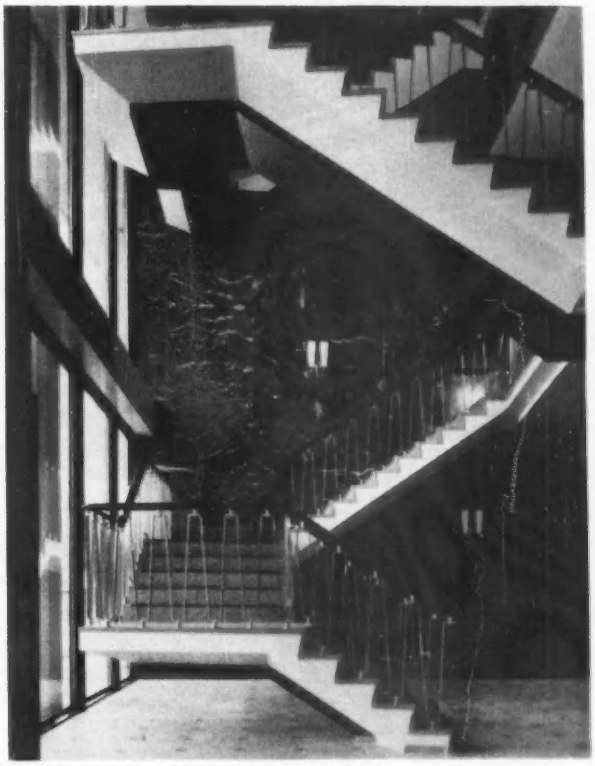
SECTION



FLOOR PLAN THIRD TO SEVENTH

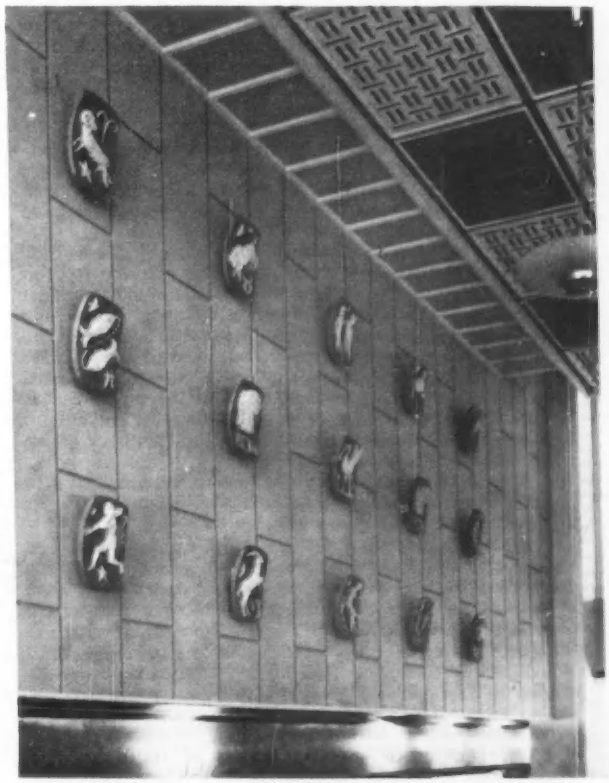


GROUND FLOOR PLAN



above : *The Drury-lane entrance hall*

below : *The zodiac signs in the News Room*



The Corn Exchange, Liverpool

The Corn Market entrance on Brunswick-street

The east and west sections of the I-shaped block are of load-bearing reinforced concrete wall construction with solid reinforced concrete floor slabs. They provide stability against lateral wind forces for the whole building. The staircase in each of these sections is arranged with landings half-way between floors ; the windows lighting the staircases relate to these landings and do not line up with office windows elsewhere.

Floors generally are of pre-stressed concrete ' Stahlton ' planks with infilling clay blocks and *in situ* concrete topping. The main exception is the lower ground floor which is a 10 in. flat slab to allow maximum headroom in the basement.

Two cantilevered reinforced concrete ' dog-legged ' stairs form a structural feature in the entrance hall off Drury-lane ; these have terrazzo treads and balustrades of anodized aluminium. Internal columns, beams and lift walls in entrance halls are faced with light Botticino marble ; dark green Issorie marble is used on staircase walls. In the News Room the lower part of the wall is faced with sycamore and guarea, and the upper part is decorated with the signs of the zodiac in relief and colour. The boardroom on the top floor and the Members' Room are panelled in Australian walnut.

The building is faced externally with Portland stone to match up with adjacent buildings ; spandrels between windows are faced with grey-green faience.

Services include fully automatic lifts which are arranged to answer calls in the correct sequence. Solid fuel-burning boilers have been installed as these are thought to be the most economical type at the present moment ; these are capable of conversion for oil fuel, should the situation change. The lower floors are heated by a combination of radiant and convected heat, whilst orthodox radiators are used in upper floors. A refuse chute for waste paper is also incorporated and runs from the top floor to the basement with a ' letter-box ' opening on each floor.

The penthouses and tank-rooms at roof level are temporary structures which can easily be dismantled when the additional storeys are built ; they are clad with aluminium sheeting.

Sub-contractors and Suppliers :

Roof and basement waterproofing, Wm. Briggs & Sons, Ltd.; *plastering*, John Cothliff, Ltd.; *plumbing*, The Merseyside Plumbing Co.; *heating and ventilating*, C. Seward & Co., Ltd.; *ventilating ducting*, Henry Hargreaves & Son, Ltd.; *electrical installation*, B. French, Ltd.; *Portland stone facings*, Wm. Thornton & Sons, Ltd.; *faience facings*, Shaws Glazed Brick Co., Ltd.; *granite and greenstone plinths, external marble*, John Stubbs (Marble & Quartzite), Ltd.; ' *Noral* ' *aluminium facing, penthouses*, Manchester Slate Co., Ltd.; ' *Stahlton* ' *floor planking*, Richard Costain & Sons (Liverpool), Ltd.; *external balustrading*, Hughes & Ellison, Ltd.; *metal windows* (aluminium : Brunswick-street block), Williams & Williams, Ltd.; (aluminium : Fenwick-street and Drury-lane entrances), Aygee, Ltd.; (galvanized : upper storeys), Rea Metal Casements (1932), Ltd.; *bronze shopfronts and entrance* (Brunswick-street), E. Pollard & Co., Ltd.; *bronze shopfronts and entrances*, (Fenwick-street, Drury-lane), George Parnall & Co., Ltd., *office lifts*, Otis Elevator Co., Ltd.; *basement goods lift*, Etchells Congdon & Muir Ltd.; *interior marble facings*, John Stubbs (Marble & Quarzite), Ltd.; *tiling, walls and floor*, John Stubbs (Marble & Quarzite), Ltd.; *terrazzo floors*, Conways, Ltd.; *wood block flooring* (Market and Brunswick-street offices), Dixon Bros. (Bootle), Ltd.; (newsroom and members' room), Vigers Bros., Ltd., *thermoplastic flooring*, Rowan & Boden, Ltd.; *rubber flooring*, Korkoid Decorative Floors; *acoustic ceilings* (Brunswick-street offices), W. F. Hollway & Bros., Ltd.; (main office block), Wm. Beardmore & Co., Ltd.; *perforated aluminium ceiling sheets*, G. A. Harvey & Co. (London), Ltd.; *perforated steel radiator grilles*, G. A. Harvey & Co. (London), Ltd.; *silver bronze balustrading* (Brunswick-street entrance), Culford Art Metal Co.; *anodized aluminium balustrading* (Fenwick-street and Drury-lane entrances), Brookes & Co. (1925), Ltd.; *wrought iron balustrading, main staircases*, Culford Art Metal Co.; *sixth floor boardroom, panelling, etc.*, R. A. Stringer & Co., Ltd.; *sixth floor boardroom, furniture*, D. Matthew & Son, Ltd.; *sixth floor boardroom, carpeting*, J. & R. Smith (Liverpool), Ltd.; *eighth floor boardroom and committee room, panelling*, Heaton Tabb & Co., Ltd.; *news room panelling, telephone box doors, etc.*, Eustace & Partners; *news room, venetian blinds*, Sefton Lift & Shutter Co., Ltd.; *members' room, panelling*, Hickman, Ltd.; *office partitioning, fifth, six and part eighth floors*, Williams & Williams, Ltd.; *painting and decorating*, Decorators, Ltd.; *electric fittings*, Troughton & Young, Ltd., Merchant Adventurers, Ltd., George Forrest & Co., Ltd.; *hardware* (Brunswick-street block), Quiggin Bros., Ltd.; *hardware* (main block), Campbell & Mabbs, Ltd.

HOTEL PLANNING TRENDS

2.—The Typical Floor Plan and Guest Room Arrangement

By J. W. BUCHANAN, FRIBA, AMTPI, AADip

THE use of floors from a rental aspect is shown in diagram form for a number of post-war Continental hotels in *Diag.* 1. Generally the guest rooms are first or second floor and upwards, but in two examples—the Apollonia at Stockholm and the Europa at Ravensburg—a considerable part of the upper floors are offices. In districts where the demand for large office blocks is tailing off, mixed developments of this kind may attract future developers. The provision of a restaurant or café on the top floor is frequent where there are ten or more storeys.

The Astoria in Lucerne has reduced guest meals facilities by providing a breakfast-room only. This is on the top floor together with hotel administration offices. A small hotel reception office is placed on ground floor, and the rest of this floor is shops, public restaurant and kitchens.

The Guest Floor

Diags. 2 and 3 show some guest-floor layouts. Generally, where site conditions, and the plan of the public rooms, are favourable, the typical floor plan is a slab block with a central corridor, bedrooms on both sides and back-to-back internal bathrooms. This type of plan, on average, gives about 78 per cent of the total internal area as rentable space, i.e., bathrooms and bedrooms. The Dallas Statler plan (*Diag.* 2) joins three slab blocks in Y form, with lifts and room service at the centre. The corridor width in this interesting plan form is restricted to 6 ft. and a high percentage of rental space is achieved.

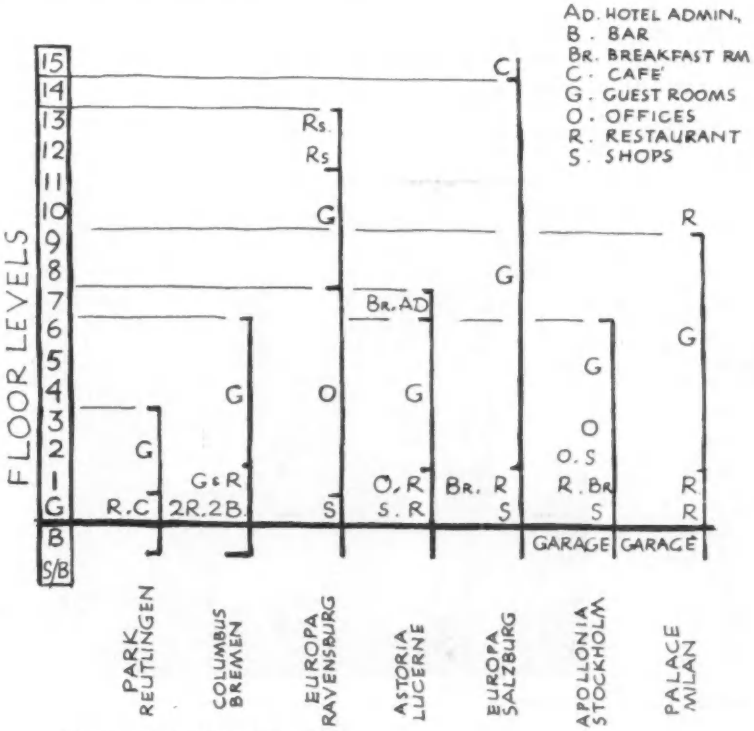
The plan of the Columbus, Bremen (*Diag.* 2) has a central corridor. The bedrooms on the front have bathrooms attached, but on the back smaller rooms are provided with lavatory basins only. Of the total of 146 rooms 78 have bathrooms and 13 have showers. The corridor width is about 6 ft. 6 in.

The Europa, Salzburg (*Diag.* 3) departs from the economical central corridor and has a single bank corridor of eight bedrooms per floor. It suffers by comparison as a result in the table below showing rentable space. Perhaps the corridor along to the flank wall could with advantage have been taken into the end room to increase the rentable area.

TYPICAL ROOM-FLOOR PLAN

	Per cent. Rentable Area*	Per cent. Service & Circulation	Total number of rooms served per lift: Service	Passenger
Statler, Dallas, USA	80	20	333	200
Europa, Salzburg	65	35	52	52
Astoria, Lucerne	73	27	47	47
Columbus, Bremen	73	27	81	81
Palace, Milan	66	34	67	100

* Excluding balconies.



Diag. 1.—Use of Floors Comparison

Single-sided corridor plans are only justified where forced by site restrictions or where a high value is placed on a view on one side of a resort hotel. An interesting example of site restriction and fine view is to be seen in the Seaway Hotel, Toronto (architects: A. Elken and R. W. Becksted). The front of the hotel faces a fine view over Lake Ontario and the back is parallel and close to the Canadian National Railway. This situation has been met by a strung-out plan with single corridor at the rear (*Diag.* 4).

The pleasant balcony treatment of front elevation shown (*Fig.* A) does suggest that a lot of attention must be given to the balconies in the depths of winter.

Balconies to guest rooms are usual where the climate is sunny and their value to the guest justifies the cost. The use of balconies is also helpful in some situations in lessening disturbance from street noise and car headlights. They were employed for this purpose in the Park Hotel at Reutlingen which faces the noisy Station-square.

An unusual example of the central corridor is shown in the plan of the Palace Hotel, at Milan (*Diag.* 3). The city fire regulations required two firemen's lifts, and these together with staircase, service and passenger lift requirements have greatly restricted the provision of rooms at the rear. Balconies are provided at the front to the eight guest floors.

Floor Service

The extent of the room service and storage areas is shown in the typical floors illustrated. The number of guest rooms looked after by one room maid is in the region of sixteen in the Dallas Statler; a staff of four per floor is required for this purpose. In the Europa, Salzburg, one maid deals with two floors.

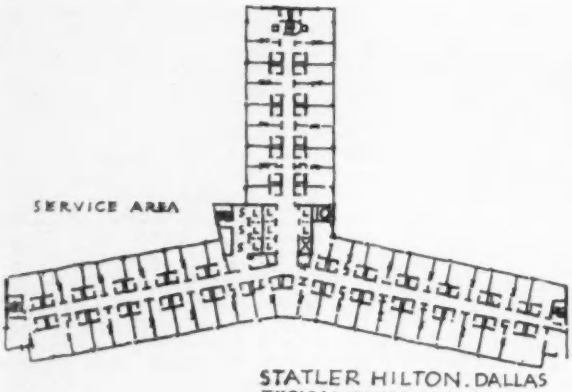
Valeting, where provided, is usually done in central room in the basement close to the service lift which connects service rooms, although in some hotels separate valeting rooms on each guest floor are preferred, as in the case of the Westbury, London (architect: Michael Rosenauer).

Service lifts to carry room meals from main kitchen are provided in a service room which has a sink, working top, storage and in most cases beverage-heating facilities. A garbage shoot is sometimes provided. A staff lavatory is usually placed adjacent to the service area. Linen storage in a large hotel is normally provided for the requirements of each floor, placed close to service lift which connects with the basement laundry, or is close to the goods-loading bay when an outside laundry is employed.

There is a big contrast between the floor service arrangements in the Dallas Statler plan, which concentrates all services including luggage in one area at the centre, and the Palace, Milan, where lifts and services are decentralised.

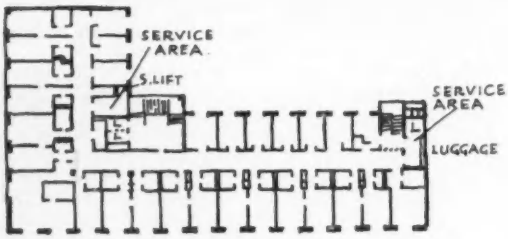
Full air-conditioning is employed in the hotel plans illustrated. A heat exchange air-conditioning unit located under guest room windows is frequently preferred to conditioning rooms from a central plant and effects great savings in trunking and size of central plant. This system was employed in the Statlers at Hartford and Washington, USA.

The height of guest rooms floors is generally between 8 and 9 ft.—floor to



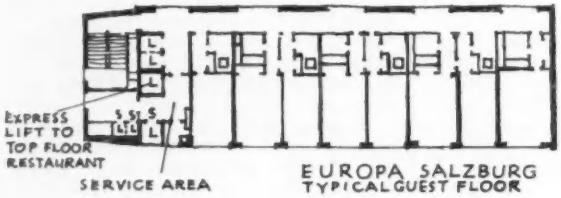
STATLER HILTON, DALLAS
TYPICAL GUEST FLOOR.

Fig. A.—The Seaway Hotel, Toronto.
Architects: A. Elken & R. W. Becksted

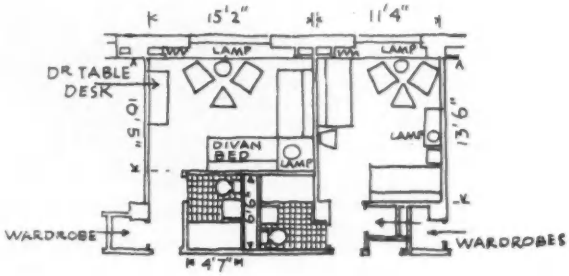


Diag. 2

COLUMBUS, BREMEN.
TYPICAL GUEST FLOOR

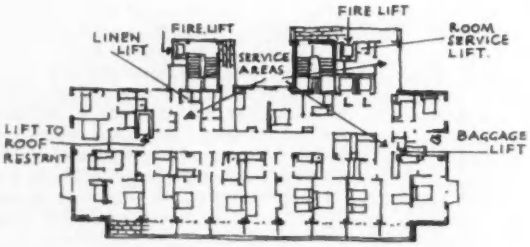


EUROPA, SALZBURG
TYPICAL GUEST FLOOR



"STUDIO ROOMS"
WASHINGTON STATLER

Diag. 5



Diag. 3

PALACE, MILAN
TYPICAL GUEST FLOOR.

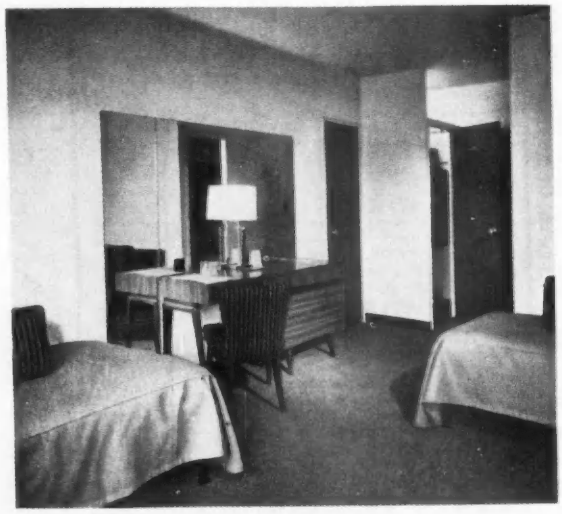
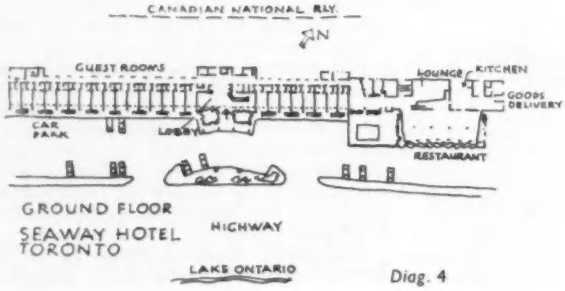
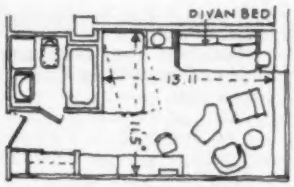


Fig. B.—Hotel Statler, Dallas; larger-size bedroom. Architects: W. B. Tabler, & Seelye, Stevenson, Value & Knecht

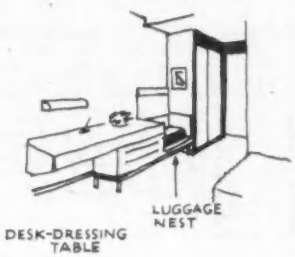


GROUND FLOOR
SEAWAY HOTEL
TORONTO

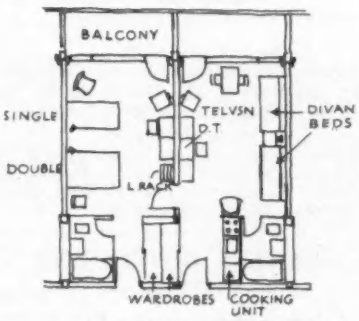
Diag. 4



TWO BED UNIT · TAMANACO HOTEL VENEZUELA



Diag. 6



SEAWAY HOTEL TORONTO COMBINED UNITS.

Diag. 7

ceiling. The heights of floors of some of the hotels mentioned are as follows :

	Approximately
Statler, Washington	8 ft. 10 in.
Beverly Hilton, California ...	8 ft. 4 in.
Astoria, Lucerne	8 ft. 2 in.
Palace, Milan	9 ft. 6 in.

Guest Rooms

In new construction there has been a scaling-down of room sizes generally provided in luxury hotels of earlier days. Room sizes in present American practice are now usually in the region of :

Double Room : 130–180 sq. ft. (ex. bathroom)
Single „ 100–150 sq. ft. („ „)

With the general acceptance of a moderate room size, emphasis is on a room layout which gets the best out of the space available and in which the furniture and fittings, etc., are generally purpose-made or, if not, carefully chosen to fit the need of the guest. Mock-ups are frequently made, and used, to ensure in detail that the best possible result has been achieved.

To meet the needs of guests who require more space, a number of openings are provided in cross walls so that an adjacent bedroom unit can be converted for sitting room use. When so used the second bathroom is usually part of the suite.

In addition, expensive resort hotels provide suites of rooms usually on the top floors ; the three-room suite in the Beverly Hilton has an area of about 730 sq. ft.

In practically all post-war construction, more than half the bedrooms provided are rooms where a living room atmosphere can be obtained by day. Such rooms in American hotels are frequently called Studio Rooms. In a two-bed room a frequent arrangement is to have single beds along the side and inner walls, one at least being made up as a divan by day. One of the first hotels in which this arrangement was made was the Washington Statler shown in *Diag.* 5.

Fig. C.—Hotel Östersund, Stockholm ; guest-room with folding divan-bed. Architects : Carl-Axel Acking & Sven Hesselgren

This plan was developed further to make better use of the lobby space outside the bathroom as a hanging cupboard, frequently combined with luggage store. In the Tamanaco Hotel, Venezuela (architects: Holabird, Root and Burgee) a combined dressing table, desk and luggage space is provided (*Diag.* 6). The interior of a two-bed room in the Dallas Statler is shown (*Fig.* B). A second bed, which is a divan by day, is sometimes provided in a nominally single room, beyond the made-up bed on the same wall, as in the Ostersund Hotel (architects : Carl-Axel Acking and Sven Hesselgren) in Stockholm (*Fig.* C).

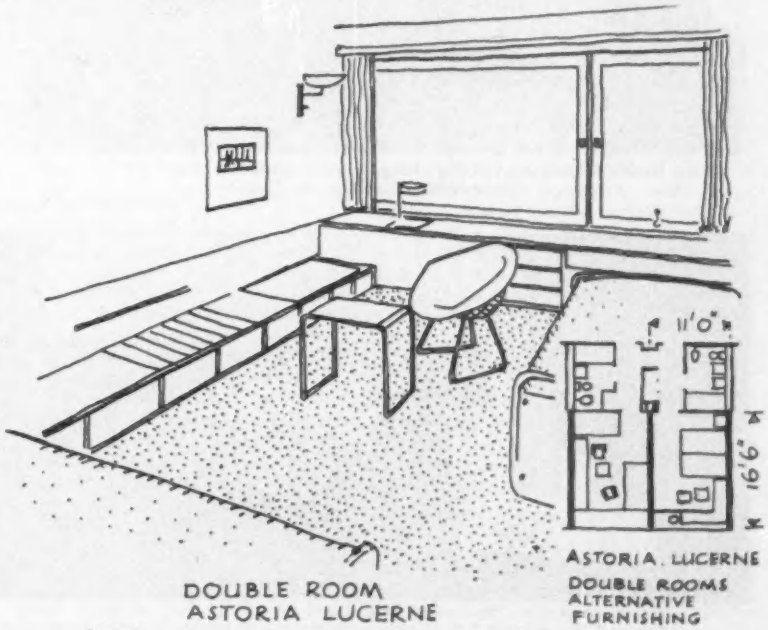
This small single room shows the simple domestic character which is achieved in many post-war examples by thoughtful layout and care in design and choice of furniture. The provision of a desk fitting allows the occupant of a small hotel bedroom to deal with a few business papers in comfort. The room is unpretentious and has an affinity with the post-war study bedroom in students' hotels, one of which is shown (*Fig.* D).

A number of examples of room sizes are given below:

	Double Bedroom sq. ft. (including lobby and cupboard)	Single sq. ft.
Statler, Dallas	187	—
Beverly Hilton, California	294	—
Statler, Washington ...	181	165
Biltmore, New York ...	200	—
Tamanaco, Venezuela ...	197	180
Palace, Milan	356	190
Savigny, Frankfurt ...	348	190

(Most ' single ' rooms in American plans are designed for use as double when required.)

In the Westbury, London, rooms with



DOUBLE ROOM
ASTORIA LUCERNE

Diag. 8

twin beds are designed with wall protection so that by day the beds can move to positions along the walls and be made up as settees.

The Seaway Hotel (*Diag.* 7) relies on rooms of equal size, but on the fourth floor they have doors between pairs, and can be let when required as a suite, the two rooms providing a total of five beds. Room meals service is cut out by providing a kitchenette, but one hopes that there are some restrictions on cooking, which might otherwise get out of hand! The outer wall section is prefabricated and has a built-in air conditioning unit. Television can be supplied in each room—a common enough diversion in new hotels to-day.

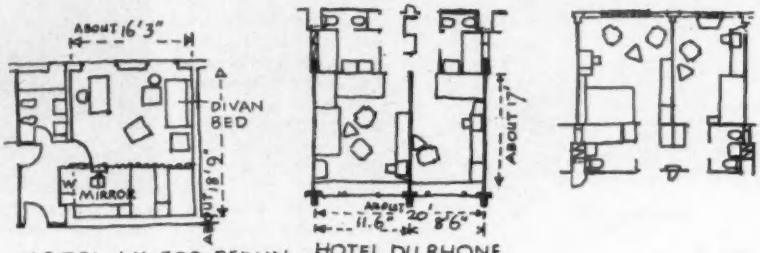
The two-bed rooms in the Hotel Astoria, Lucerne (*Diag.* 8) provide alternative arrangements in furnishing, and a door inside the room entrance connects about one-fifth of the rooms to form suites when required. The fitting for luggage is cantilevered out and is about 1 ft. 6 in. to the top, and is combined with drawers which extend throughout the length of the fitting. A hardwood back extends along the fitting and metal protection strips are set in the luggage section.

The Hotel-am-Zoo on the Kurfuerstendamm in Berlin was extended by two new storeys containing about 40 rooms (architects: Prof. P. Baumgarten and Knoll International). The room plan is shown in *Diag.* 9. The open luggage rack is long and low and combines well with the writing desk (as shown in *Fig.* E).

In the Hotel du Rhone in Geneva, an 8-storey hotel on the bank of the Rhone, the elevation frankly expresses the single and double nature of the guest rooms which are shown in plan (*Diag.* 10). Here again the single room can be combined with a double to form a suite.

Bathrooms are seldom more than 7 ft. by 5 ft. 6 in. internally in American examples, and fittings are generally arranged with plumbing and services on opposite sides of ducts to combine with the adjacent bathroom before connecting to the soil pipe. Baths seldom exceed 5 ft. 6 in. in length and are frequently purpose-made. The bathroom in the Dallas Statler has been compressed into 4 ft. 10 in. by 6 ft. 6 in.

(*to be continued*)



HOTEL-AM-ZOO BERLIN DOUBLE ROOM. *Diag.* 9

HOTEL DU RHONE GENEVA. *Diag.* 10

TYPICAL GUEST ROOMS.

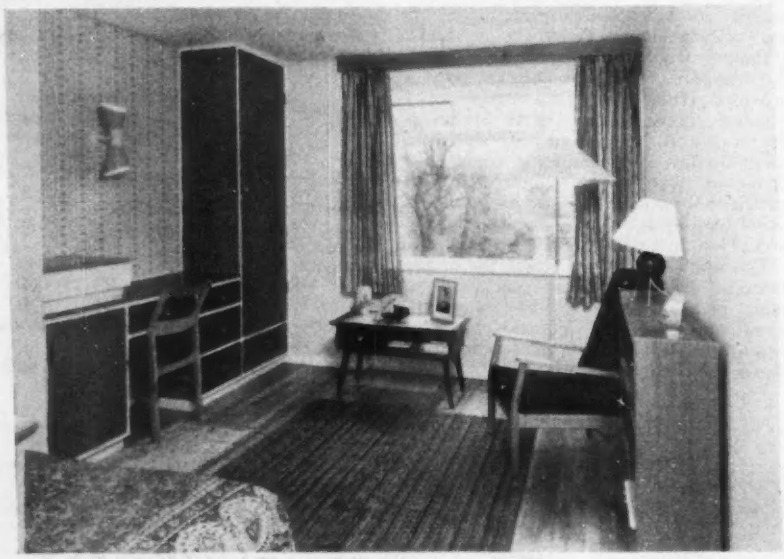


Fig. D.—St. Katherine's Training College, London; a hostel room. Architects: Woodroffe, Buchanan & Coulter

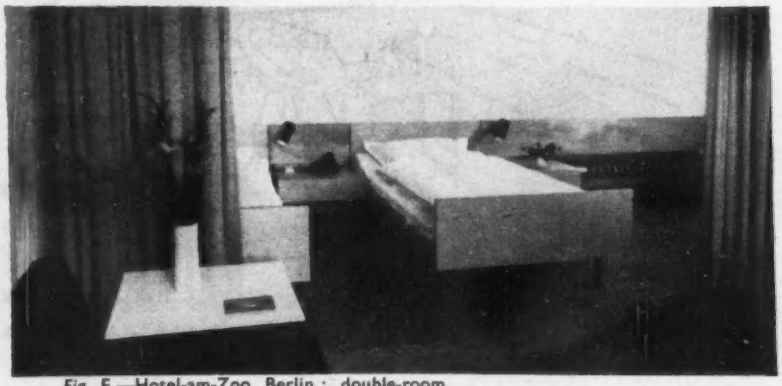


Fig. E.—Hotel-am-Zoo, Berlin; double-room. Architects: P. Baumgarten & Knoll International

**Earlier articles in this series appeared in* The Builder *as follows: 'Notes on Purpose and Planning' (January 16) and 'Planning Below Guest-Room Floor' (February 20).*

'HOSTELS, HOTELS AND MOTELS'

Symposium at the RIBA

THE symposium on 'Hostels, Hotels and Motels' held at the RIBA on Tuesday night, proved somewhat disappointing. This was because far more reasons why new buildings of this kind cannot be built were advanced than positive suggestions for easing the hotels shortage. Beyond emphasising the need for a bathroom to every bedroom, if North American visitors are to be attracted, singularly few useful suggestions on the design of new hotels were forthcoming.

If the symposium fell short of expectations this was certainly not the fault of the chairman, Mr. Richard Sheppard, V-PRIBA, who cut short many long and unprofitable discourses to give other speakers a chance, nor of Mr. Bryan Westwood and his information subcommittee of the RIBA's Science Committee, who had prepared an excellent series of questions that were put to the meeting.

Architects were clever if they could draw any firm conclusions from the earlier part of the proceedings, which developed into a battle between Mr. L. A. Lickorish, deputy director-general of the British Travel and Holidays Association, who declared that there was an acute shortage of hotel accommodation in this country, and Mr. E. D. Croft, director and secretary of the British Hotels and Restaurants Association, who said that there was not.

News of the Week

A PERSPECTIVE of the BOAC Airways Terminal at Victoria, London, SW1, as it will appear when the new extension is completed. Sir Thomas Bennett, KBE, FRIBA, is the consultant architect for the scheme, which has been prepared by the Properties and Services Branch of BOAC. The new extension, for which a contract has been let to Sir Robert McAlpine & Sons Ltd., will consist of a basement, a ground floor, and a mezzanine, and six upper floors, giving 25,000 sq. ft. of office space. In the new basement will be a passenger restaurant twice the size of the existing restaurant

Piccadilly Competition Suggested

A SUGGESTION that an architectural competition should be promoted for the future development of Piccadilly Circus was made at Tuesday's meeting of the London County Council in a debate on the Town Planning Committee's report on details of a new building (described on page 558) with a 172 ft. tower on the Café Monico site.

The suggestion came from Mr. T. Braddock, FRIBA, who said that the competition should be open to traffic engineers, architects, and town planners. He proposed that the council should offer a dozen premiums of £500 or £1,000.

Criticising the present proposals, Mr. Braddock said: 'They are sticking up a notice board 172 ft. high. This advertising board is going to be a monument to incapacity and stupidity for 100 years. I do not think the temporary demands of advertising lunatics should be catered for in this manner.'

The committee's report was accepted.

Country of Museum Keepers'

SPEAKING at Chichester, Sir Hugh Casson, FRIBA, said there was a danger in this country of becoming a country of museum keepers. It was too often believed that the things of the past were much nicer than things of the present. 'Do not be resistant to the fact that something new is coming to the town. Buildings sooner or later grow old and die. Work with and not against your local authority. Praise them when they deserve it.

The Blackheath Society

AN EXHIBITION to celebrate the coming of age of the Blackheath Society was opened by Viscountess Lewisham on March 12. This most interesting display of over 200 pictures, photographs, maps, etc., illustrating Blackheath past and present, remains open in All Saints' Hall until March 21. The purpose of the Society is to preserve the amenities and artistic character of Blackheath and to protect the district against spoliation.

Whilst it has had both successes and failures (over 50 cases have been dealt with by the Society) there is no doubt that but for its efforts Blackheath would be a far less attractive place today.

'Road Works Ahead'

A NEW exhibition at the County Hall, London, SE1, has this title and once the outer barricades of surveying instruments, flashing beacons, road signs and assorted ironmongery have been penetrated there are a number of very interesting models and photographs showing how London County Council are spending currently £3 million a year (the expenditure in 1959-60 is expected to be £5 million) on improving London's roads. The schemes illustrated are not new ones and they have mostly been shown before, but this exhibition gathers them together and gives some idea of the vast volume of work which the LCC must handle. The exhibition will be open on weekdays from 10 a.m. to 6 p.m. (12 noon on Saturdays) until March 26.

An Annual Dinner

THE ANNUAL DINNER and dance of the Institute of Plumbing and the National Federation of Plumbers and Domestic Engineers (Employers), held at the Park Lane Hotel, W1, on March 11 was a most cheerful affair in which the two Presidents, respectively Dr. E. Carr and Mr. H. Hewerdine, acted as joint hosts to upwards of three hundred members and guests. Speeches were short and non-serious for the most part, a right note for the evening being struck by Mr. T. V. Prosser, National President NFBTE, whose contribution kept the room in gales of laughter. *Punch* should take Mr. Prosser on to its staff as soon as the National can spare him. His definition of a builder as a man whose job it is to erect a hoarding round a hole in the ground with a viewing platform from which the passer-by can see what the subcontractors are doing, was well received. Dancing and a good floor show continued until 1 a.m. The joint hosts and their Director, Mr. H. Leighton, deserve congratulation on a very happy evening.

Sydney Opera House

THE HON. J. J. CAHILL, Premier of New South Wales, officiated at a ceremony on March 2 to mark the start of work on Sydney Opera House on the Harbour foreshore. Construction to podium level is expected to be completed by the end of the year, and the project as a whole will be finished by 1962. The cost is estimated to be almost £4m. sterling.

The building will contain two halls, the larger of which is designed for symphony concerts, including organ music and soloists, large scale opera and ballet.

The design is the result of a world-wide competition. The £5,000 winning award went to Mr. Joern Utzon, of Denmark, who was present at the ceremony on March 2. Dr. Nikolaus Pevsner, when he visited Sydney last year, said he thought the design 'a stroke of genius.'

Parliamentary Candidate

MR. TOM BRADDOCK, FRIBA, Labour MP for Mitcham from 1945 to 1950, has been approved by the national executive of the Labour Party as the prospective candidate for Malden and Kingston at the next General Election. He served from 1934 to 1945 on the Surrey County Council and now represents Holborn and St. Pancras on the LCC. He is 72.

Croydon Municipal Offices

CROYDON COUNCIL decided, on February 23, to ask the company developing the High-street-Katherine-street island site in central Croydon to make provision for municipal offices in its scheme. After considering other sites for the new offices, the council's Parliamentary committee decided that Katherine-street had more advantages. The municipal offices can be built more quickly on this site.

Theatre-Building Proposals

MOSS EMPIRES and Stoll Theatres were both seriously considering building modern theatres to replace ones which had closed where it was evident that there was great public interest, said a statement issued recently by the board of directors of Moss Empires.

The statement added that already discussions had taken place with the city of Birmingham for the leasing on a long-term basis of a new theatre, and both in Nottingham and Leeds, provided there was sufficient interest in the existing theatres, a new theatre was contemplated for each city.

Vacant Post

WESSEX REGIONAL HOSPITAL BOARD invite applications, by April 11, for the post of Regional Architect. Details advertised elsewhere.

PROFESSIONAL ANNOUNCEMENT

The new London office address of Mr. S. W. Sherwin, FRICS, is 26/28 Warwick-way, London, SW1, the telephone number remaining the same (Victoria 4923). The address and telephone number of Mr. Sherwin's Boston office at 4 South-sq., is unchanged.

COMING EVENTS

FRIDAY, MARCH 20

BRITISH REFRIGERATION ASSOCIATION.—Annual luncheon. Connaught Rooms, Great Queen-st., WC2. 1 p.m.

INSTITUTION OF CIVIL ENGINEERS.—Joint meeting with the Institutions of Mechanical Engineers and Electrical Engineers. Graham Clark Lecture. Speaker: Prof. Sir Arnold Plant. Institution of Mechanical Engineers, 1 Birdcage-wlk., SW1. 6 p.m.

BIRMINGHAM AND FIVE COUNTIES ARCHITECTURAL ASSOCIATION.—Meeting. Birmingham Medical Institute, 36 Harbourne-rd., Edgbaston, 15. 6.15 p.m.

RICS.—Residential course. Subject: 'Business Management and Office Efficiency.' Pembroke College, Cambridge. 6.30 p.m. (until March 22).

GUILD OF SURVEYORS.—Annual dinner and dance. Waldorf Hotel, Aldwych, WC2. 7 p.m.

INSTITUTE OF QUANTITY SURVEYORS (Midlands Branch).—'Some Thoughts on Recent Developments in Modern Civic Design.' By Mr. A. G. Sheppard-Fidler, FRIBA. Lecture Hall, Byng Kenrick Professional Bodies Suite, College of Technology, Gosta Green, Birmingham. 7 p.m.

SATURDAY, MARCH 21

ARCHITECTURAL ASSOCIATION.—Visit to Shell Headquarters Building, South Bank, SE1. 10.30 a.m.

TUESDAY, MARCH 24

COMBUSTION ENGINEERING ASSOCIATION (Southern Region).—Meeting. 'The Costing of Heat and Power.' By Mr. G. H. Buckle, and 'Capital Investment and Fuel Saving Schemes.' By M. R. H. Potterill. St. Ermin's Hotel, Westminster. 10.30 a.m.

WEDNESDAY, MARCH 25

NATIONAL FEDERATION OF DEMOLITION CONTRACTORS.—Annual general meeting, followed by luncheon. Waldorf Hotel, Aldwych, WC2. 1 p.m.

VICTORIA AND ALBERT MUSEUM.—'William Morris and the Anti-Scrape: The Origin and Development of the Society for the Protection of Ancient Buildings.' By Mr. Alan Reed, ARIBA. Museum Lecture Theatre, South Kensington, SW7. 6.15 p.m.

A HUNDRED YEARS AGO

From The Builder *of March 19, 1859*

THE ELECTRIC LIGHT.—A new process is spoken of as having been successfully tried, and, it is said, patented. Mercury, or other fluid or semi-fluid body, is used as one or more of the electrodes. A tube within the lamp is so arranged that it shall remain full, or nearly so, during waste or consumption by the light. The supply of the fluid electrode is regulated by a tap. Other improvements, such as the condensation of vapour on the lamp, by causing a constant flow of water over the glass, the prevention of vapours rising from the waste fluid, by the introduction of a stream of water into the waste-pipe, etc., are also mentioned. The use of mercury as an electrode is of old date.

Letter Box Campaign

THE GPO are sending out illustrated leaflets to business firms and private householders, during the next few weeks, informing them of letter boxes now in the shops which conform to the British Standards Institution specification that the opening shall not be less than 8 in. by 1¼ in., shall have no rough edges or fierce springs and should be fitted between 2 ft. 6 in. and 4 ft. 9 in. from the ground. This is part of a new nation-wide campaign designed to improve the size, type and placing of letter boxes.

ROYAL INSTITUTE of BRITISH ARCHITECTS

Council's Decision on Raising the Standard of Entry to the Profession

ACTING on a recommendation made by the Conference on Architectural Education held in Oxford in April, 1958, the Council of the Royal Institute of British Architects has decided that, with effect from September 1, 1961, the minimum standard for the Probationership of the Royal Institute shall be the General Certificate of Education or the Scottish Leaving Certificate or the Scottish Universities Preliminary Examination Certificate in five subjects from the following list, including English (English Language) and Mathematics or a Science subject, at least two subjects being at 'A' level (or in the case of Scotland on the Higher grade, or in the case of Commonwealth candidates the equivalent recognised by the Council of the RIBA):

1. RELIGIOUS KNOWLEDGE
2. ENGLISH or ENGLISH LANGUAGE
3. ENGLISH or ENGLISH LITERATURE
4. HISTORY
5. ENGLISH ECONOMIC HISTORY
6. BRITISH CONSTITUTION
7. ANCIENT HISTORY
8. ECONOMICS
9. GEOGRAPHY
10. WELSH
11. LATIN
12. GREEK
13. FRENCH
14. GERMAN
15. ITALIAN
16. SPANISH
17. RUSSIAN
18. POLISH
19. OTHER LANGUAGES
20. MATHEMATICS
21. MATHEMATICS (double subjects)*
22. APPLIED MATHEMATICS and MECHANICS
23. PHYSICS
24. CHEMISTRY
25. BOTANY
26. ZOOLOGY
27. BIOLOGY
28. GEOLOGY
29. ART
30. MUSIC
31. PHYSICS with CHEMISTRY
32. GENERAL SCIENCE
33. GREEK LITERATURE IN TRANSLATION
34. GENERAL PAPER

* These subjects are equivalent to two Advanced level subjects.

(The subjects to be accepted in the Scottish Leaving Certificate and Commonwealth examinations are under review by the Conference Committee.)

Candidates who submit Botany, Zoology, Biology or Geology as their science subject must have passed Mathematics at Ordinary level.

The new decision does not affect the entrance requirements of any particular University School.

In drawing up the list of subjects the Royal Institute have borne in mind the fact that it is essential to keep the education of the potential architect as wide as possible and to avoid any specialised subjects among the minimum requirements, although practical studies in drawing and handicraft would be encouraged as additional subjects.

Mr. Sheppard's Comments

Commenting on this decision at a Press conference on March 11, MR. RICHARD SHEPPARD, Hon. Secretary RIBA, said that one of the effects of raising the standard of entry in the way indicated would be, it was estimated, to reduce the annual intake of students from the present figure of about 900 to 1,000 to 500 once it became fully operative. This would retain the present number of about 20,000 architects at a constant level until 2000 AD. If this decision had not been taken it was estimated that the number of practising architects would rise to about 35,000 in the '70s. Mr. Sheppard emphasised that the figures quoted were incidental to the decision, and had been worked out after the change had been decided upon.

One of the advantages that would follow the decision, Mr. Sheppard continued, was that it should be possible to start the syllabus at a higher level than at present. 'I hope it may be possible in time to cut the period of training from five years to about four,' he said, emphasising that this was his personal opinion. Raising the standard of entry would also mean, eventually, a reduction in the number of schools of architecture, with a consequent increase in the pressure on the university schools. The effect would be to cause some of the existing facilities for training architects at technical colleges to 'wither away.'

Mr. Sheppard said that it was estimated that there were at present about 10,000 unqualified people in architects' offices working as assistants, about half of whom were registered as students. The other half were, presumably, content to 'soldier on' in their present capacity. One effect of the Council's decision would be to reduce the number of part-time students, since it was known that comparatively few students in this category had attained the new educational standard required.

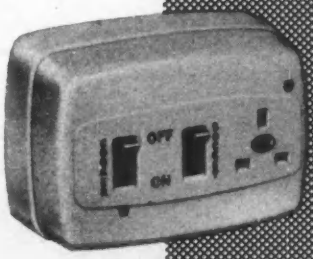
Competitions

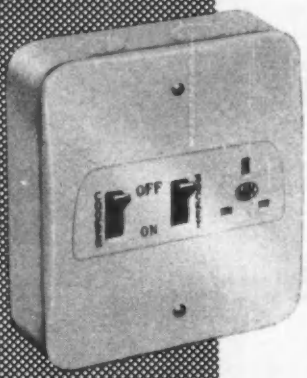
On recent criticisms of architectural competitions, Mr. Sheppard said that it was a very difficult job to reorganise the competition system, although he personally thought that the task should be undertaken. He described as 'the last piece of 19th century thinking' the idea that the assessor should merely select 'the best piece of aesthetic architecture he can find.' This did not accord with present-day thought. In the unlikely event of he himself ever being called upon to act as an assessor, he would alter the conditions to state the points on which he would make his award.

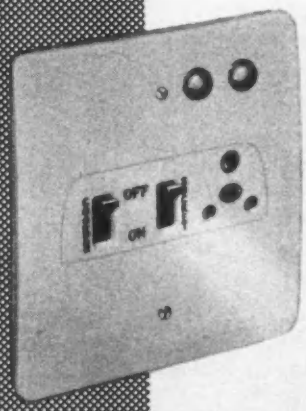
Mr. Sheppard also gave it as his opinion that the RIBA should make it a condition that all entries in a competition should be exhibited, and even in the case of a limited competition he agreed with a suggestion that all first-stage entries, as well as the finals, should at least be available to anyone who might want to see them. He was 'all for three assessors' rather than one.

Mr. Sheppard reported that the Royal Institute was still continuing to press for the inclusion of architects in the design teams responsible for the new motorways. Some people, he said, had completely missed the point over this, and had drawn the entirely erroneous conclusion that architects were only interested in the design of the street furniture involved. This was complete nonsense. What architects were demanding was that they should play a proper part in the design and routing of the motorways themselves, particularly where they entered cities and towns, where without care they could ruthlessly sever long-established communities.

Points from the minutes of the RIBA Council meeting held on March 10 are on following page.







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MUSEUM 3705

RIBA

Notes from Council Minutes

The Honorary Associateship.—Sir Jacob Epstein, KBE, has accepted the Council's nomination for election as an Honorary Associate.

The Secretaryship, RIBA.—The Council appointed Mr. Gordon R. Ricketts as Acting Secretary during the absence of Mr. C. D. Spragg on his tour of Africa.

Mr. J. L. Gleave (A), RSA.—The congratulations of the Council were conveyed to Mr. J. L. Gleave (A) on his election as a Royal Scottish Academician.

Completion of Premises Fund: Donation.—The Council received with appreciation and thanks a donation to the Completion of Premises Fund made by Mr. Harry Barrett (A) (USA).

RIBA Drawings Collection: Drawing by Canaletto.—It was reported that, during the course of routine work on the Drawings Collection, a drawing had been discovered which had now been ascribed by experts to Canaletto. The drawing had been included in a gift of miscellaneous letters and sketches by Sir Robert and Sydney Smirke, presented to the Institute in 1938 by a granddaughter of the latter, Mrs. Dorothy Biggar. The Library Committee had recommended that the drawing should be retained by the Institute.

Mrs. Biggar has been told of the discovery and has replied expressing her pleasure and agreeing that the drawing should remain in the possession of the Royal Institute.

A letter of appreciation and thanks has been sent to Mrs. Biggar.

[The drawing has been valued at £800.]

Portraits of Sir John Vanbrugh and Inigo Jones.—The Council approved the purchase of a framed portrait of Sir John Vanbrugh and one unframed of Inigo Jones, for addition to the RIBA collection of portraits.

The Archbishops' Commission on Redundant Churches.—It was reported that a letter had been received by the President from Lord Bridges, Chairman of the Archbishops' Commission on Redundant Churches, inviting the Institute to submit evidence on the architectural aspects of the subject.

It was agreed that the Institute should submit evidence to the Commission, but it was considered important that architectural advice should be available to the Commission from the outset, in view of its terms of reference, which are 'to consider problems arising in connection with churches regarded as redundant but having a claim to preservation on historic or architectural grounds, and to make recommendations as to the procedures for handling such matters and the financial problems involved.'

It was accordingly agreed that the President should reply to Lord Bridges asking for consideration to be given to the inclusion of an architect or architects of standing in the membership of the Commission.

Architectural Competitions in Commonwealth Countries.—The Council recalled that for a number of years past architectural competitions promoted in Canada, Australia, New Zealand and South Africa have been controlled by the Allied Society in each of those countries, and reviewed the position in a number of other Commonwealth countries where there are Allied Societies.

It was agreed, on the recommendation of the Competitions Committee, that full control of architectural competitions (other than international competitions) should be left to the Allied Society in the area concerned, on condition that such competitions are open only to architects in that area, and that the conditions of the competition conform to the RIBA Regulations governing the Promotion and Conduct of Architectural Competitions, no variations being sanctioned without the prior approval of the RIBA.

Competitions: Fees in the event of Work not proceeding within a Specified Time.—The Council considered representations from the Competitions Committee in regard to competitions for very large projects in which the author of the selected design is not instructed to proceed with the work within two years of the date of the award.

Under Clause 3 (f) of the Regulations governing the Promotion and Conduct of Architectural Competitions and Clause 7 of the Model Form of Conditions, as at present in force, the architect is entitled to be paid, including the premium, the following fees:—

1½ per cent on his estimate of cost up to £100,000
½ per cent on the next £300,000
¼ per cent on the next £600,000

It was agreed that these figures should be amended to read as follows:—

1½ per cent up to £100,000
½ per cent on the next £300,000
¼ per cent on the next £600,000
¼ per cent on the next £1,000,000

The Role of the Architect in the Building Industry.—The Council considered a report from the Practice Committee on the Role of the Architect in the Building Industry, with special reference to architects holding directorships in companies whose activities are connected with the building industry.

It was agreed to ask the Practice Committee to continue their study of this matter and to prepare the memorandum for publication in the RIBA *Journal* and to invite comments from the Allied Societies.

Regional Cost Control Conferences.—The Council approved a recommendation of the Cost Research Committee that regional Conferences on Cost Control on lines similar to that recently held at Missenden Abbey, should be arranged as follows: Bristol, July 2-4, 1959; York, October 9-11, 1959; Manchester, January 2-4, 1960; Nottingham, under the auspices of the Nottingham, Derby and Lincoln Society of Architects on a date yet to be fixed.

It was also agreed to enlist the co-operation of the Allied Societies concerned.

Appointment of Representatives

Bristol College of Technology: Building (Professional Studies) Advisory Committee.—Eric Ross (F).

Wolverhampton and Staffordshire College of Technology: Building and Civil Engineering Advisory Committee.—B. Butler (F) and S. P. Hayward (L) (both re-appointed).

Ministry of Works: Ancient Monuments Board for England.—Martin S. Briggs (F) (re-appointed).

Electrical Association for Women: National Advisory Council.—Miss Elizabeth Denby (Hon. A) (re-appointed).

Eleventh International Hospital Congress, Edinburgh, June 1-6, 1959.—Lieut.-Colonel D. Polson Hall (F).

HISTORIC BUILDINGS

Further List of Grants

THE Minister of Works has announced another 33 grants towards the preservation of historic buildings in England, Wales and Scotland. These grants are authorised under an Act of Parliament of 1953 which set up Historic Buildings Councils in the three countries to make recommendations to the Minister.

Since their formation the councils have considered 2,707 applications for aid. The number of buildings for which owners have accepted assistance has reached 600, the aggregate value of grants being a little over £2m.

A condition attached to every grant is that the public shall be given reasonable opportunity to view the building.

Town properties figure more prominently than country houses in the present list. There are civic buildings, like the Assembly Rooms at Derby, the Moot Hall at Hexham, and the Debtors' Prison at York. There are Georgian houses in Coventry, at Highgate, and in the heart of London, a shop in Brighton, and a Regency terrace in Hastings.

Country houses receiving grants range from a Highland Castle, through family seats like Lydiard Park and Dorton House (now a school), to Tudor manor houses in Herts and Dorset.

A former grammar school, a rectory, a tithe barn, and ornamental temples also appear in the English list.

In Wales grants go to the Border stronghold of Powis Castle and the stables at Wynnstay Hall.

Following is a list of the 33 buildings concerned:—

ENGLAND

Moot Hall, Hexham, Northumberland; Four Temples on Duncombe Park Estate (Duncombe-terrace and Rievaulx-terrace), Helmsley, Yorks; The Old Grammar School, Thornton-le-Dale, Pickering, Yorks; Debtors' Prison, York; The Assembly Rooms, Market-place, Derby; The Chantry, Ely, Cambridgeshire; Manor House, Little Gaddesden, Herts; Therfield Rectory, Royston, Herts; The Old Hall, Snettisham, Norfolk; Church House, 10 South-grove, Highgate, N6; 1 Greek-street, Soho, London, W1; The Grange, Farnham, Surrey; The Bunne Shoppe, 9 Pool Valley, Brighton; Pelham-crescent, Hastings; Somerset Lodge, Petworth, Sussex; Dorton House, near Brill, Bucks; Parnham, Beaminster Dorset; Chettle House, near Blandford, Dorset; The Court House, East Meon, Hants; Chandos House, Westgate Buildings, Bath; Tithe Barn, Manor House, Purton, Wilts; Lydiard Park, Lydiard Tregoz, near Swindon, Wilts; Kentchurch Court, Pentrlas, Herefordshire; 7 Little Park-street, Coventry, Warwicks; Wootton Hall, Wootton Wawen, Warwicks; Borwick Hall, Lunesdale, Lancs.

WALES

Stables at Wynnstay Hall, Ruabon, Denbighshire; Powis Castle, Welshpool, Montgomeryshire.

SCOTLAND

Old Tolbooth, Stonehaven, Kincardineshire; Kilkerran House, Maybole, Ayrshire; Dean's House, Dunblane, Perthshire; Albion House, Church Street, Cromarty; Castle Leod, Strathpeffer, Ross-shire.

Builder's Estate

MR. JOHN GRAY of the Templars, Bridge End, Warwick, building contractor, formerly president of the National Federation of Building Trades Employers, left £498,165.

ARCHITECTS' REGISTRATION COUNCIL

PARTNERSHIP WITH 'DISQUALIFIED ARCHITECTS' REVIEWED

CONSIDERATION of an addition to the Code of Professional Conduct governing partnership between architects and others struck off the Register for 'disgraceful conduct'; the propriety of architects acting as insurance agents; and the position of architects when negotiating the sale or purchase of land were matters which came before the 108th ordinary general meeting of the Architects Registration Council of the United Kingdom. This, and the 27th annual meeting, was held at 66 Portland-place, W1, on March 11. Mr. H. V. Lobb, CBE, FRIBA, was re-appointed chairman and Mr. S. Vincent Goodman, FRIBA, vice-chairman.

Partnership with the 'Disqualified'

In a separate report the Professional Purposes Committee recalled that at the meeting of the Council on October 15 the Council, having considered the committee's report on a proposed new principle restricting architects from entering into partnership with certain persons, resolved as follows: 'that in the opinion of the Council it is in the interest of both the public and the profession to lay down in the Code of Professional Conduct a prohibition upon architects on the Register (a) entering into partnership in the practice of architecture, or (b) entering into employment in the practice of architecture with a person whose name has been removed from the Register under Section 7 of the Architects (Registration) Act 1931, for conduct disgraceful to him in his capacity as an architect or for having been convicted of a criminal offence; and to this end they instruct the Professional Purposes Committee to prepare for the Council's consideration a draft of the proposed prohibition for embodiment in the Code.'

In their further study of the proposal, the Committee reported, serious doubts arose as to whether the prohibition should be extended to entering into the employment of persons disqualified for registration under Section 7. The committee considered the position, *inter alia*, where the disqualified person is at the material time a member of an existing partnership with another architect or architects. In such circumstances, the first prohibition against entering into partnership with a disqualified person would not affect his existing partnership. The second prohibition would, however, prevent any other architect from entering into the employment of that firm so long as the disqualified person remained a partner. It seemed to the committee that such a ban would bring undue hardship on the innocent party or parties, and for this reason should not be imposed.

Other considerations strengthened the committee's view that it would be impracticable, undesirable and, in many cases, unfair to include this second prohibition in the proposed new Principle, and accordingly advise that it be omitted therefrom.

On the assumption that the Council would endorse this view, the Committee recommended the following resolution to the Council:—

'That the following new Principle be added to the Code of Professional Conduct and that it should come into operation on January 1, 1960.' An architect must not enter into partnership, in the practice of architecture, with any person who is disqualified for registration by reason of the fact that his name has been removed from the Register under Section 7 of the Architects (Registration) Act, 1931.'

The position was approved by Council.

Building Societies' Commission

The Committee reported that a branch manager of a Building Society had written to a number of architects offering them 10s. per cent on any investments 'introduced' by them. The Registrar informed the branch manager that the acceptance of any sum of money by way of discount or any other kind of commission by architects constituted a grave infringement of the Code of Professional Conduct, which laid down that an architect in private practice may be remunerated solely by his professional fees paid by his client on a recognised scale; and that any architect who accepted such commission might be the subject of disciplinary proceedings. The manager had replied to the Registrar assuring him that he would cease offering such commissions and he had written to the architects concerned withdrawing his previous offer.

The Committee had also considered the propriety of architects acting as insurance agents. They were of the opinion that it was not unprofessional *per se* for an architect to so act, provided that any insurance effected by the architect in that capacity was not in respect of any building connected with his professional practice.

The committee had been asked by a number of architects whether it was proper for them to charge, and if so, what fee, for negotiating the sale or purchase of land or buildings. The committee had expressed the opinion that if an architect was specifically instructed by a client to negotiate the sale or purchase of a property, he was entitled to charge for this service, preferably on a *quantum meruit* basis, and provided the fee was paid by his client; but that if the fee was to be paid by someone other than his client, he should not undertake the service, but advise that an estate agent be instructed to act instead.

A number of architects, the committee reported, in the Southampton area had recently received a letter from a freelance journalist offering to keep the architect's name in 'the forefront of subscribers to these journals' (architectural) in exchange for 'certain information regarding their work.' The Registrar had written informing him that the Council would institute disciplinary proceedings against any architect misguided enough to have any dealings with the proposal made by him in his letter, and asking for an assurance that he would cease to make any similar proposals to other architects. The journalist has replied that his letter to the architects had been 'misconstrued' and that he would not pursue the matter any further.

From inquiries which the Registrar had made, it was clear that this journalist was not in a position to carry out his offer of keeping architects' names in the forefront in the architectural press.

During the ordinary meeting approval was given for admission to the register of 320 applicants, 309 of whom had qualified by examination under Section 6 (1) (c) of the Principal Act and the remainder under Section 6 (1) (d) of the Principal Act and Regulation 26 (a) (3), architects resigned—seeking re-admission. The number of applications under Regulation 26 (b) was 36, of which 10 were admitted, 25 rejected and one withdrawn. Of the 309 new entrants four were women.

In the report of the Finance and General Purposes Committee it was stated that up to February 11 approximately 63.4 per cent of retention fees due had been paid compared with 75 per cent for the period up to February 21 last year. It was impossible to give an exact figure at present. In accordance with the Council's instructions of October 15, 1958, the names of 23 architects resident overseas were removed from the Register on January 2 for non-payment of their 1957 retention fees. The committee recommended that architects who, in the past had repeatedly defaulted in the payment of their fees and whose fees for the present year were unpaid on April 1 next, be removed from the Register.

During 1958, it was reported, 789 names were added and 84 restored to the Register. Owing to deaths, resignations and other causes, 721 names were removed. On December 31 last, there were 18,987 names on the Register, 152 more than on the corresponding date in the previous year.

CRICKET

RIBA Cricket Club

THE RIBA CRICKET CLUB has elected the following officers for 1959 season: C. A. R. Norton, captain; J. G. Batty, hon. treasurer; and D. L. Robinson (c/o Ronald Ward & Partners, 29 Chesham-place, SW1), secretary. Mr. Robinson writes: 'There is still room in the club for promising young talent —batsmen, bowlers and fielders.'

A cocktail party for members and wives and friends has been arranged at the Architectural Association on April 10 (6-8 p.m.) and the annual dinner, also at the AA, on November 13.

Fixtures for 1959 are:

May 12	*v.* Vitruvians	Elstree*
May 27	*v.* LMBA	Wimbledon
June 10	*v.* AA	Elstree*
July 8	*v.* Blue Circle	Bromley
July 22	*v.* RICS	Cheam
August 26	*v.* CCC	Wimbledon

Except for those marked * (which denotes 2.30 p.m. start) matches begin at 11.30 a.m.

The Vitruvians

THIS SEASON, which will be the Club's tenth, begins with a match against the RIBA Cricket Club at Elstree on May 12. The annual game against the NFBTE is fixed for Thursday, June 4, at the Richmond Cricket Club (11.30 a.m. start).

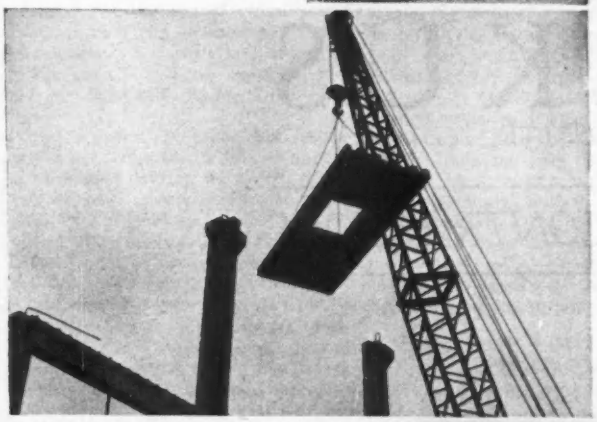
NRDC Appointment

The Board of Trade announce that Mr. John Clifford Duckworth, BA, FInstP, AMIEE, FInstF, will become managing director of the National Research Development Corporation on April 1 this year.

March 20th, 1958
Fire gutted a major part of the building.

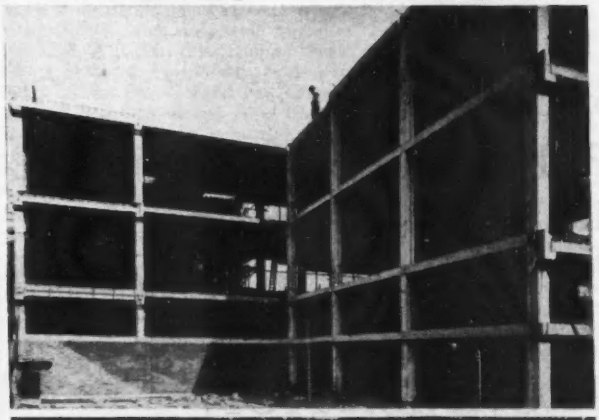
3 MONTHS METAMORPHOSIS

at an engineering works at Swindon ✷



May

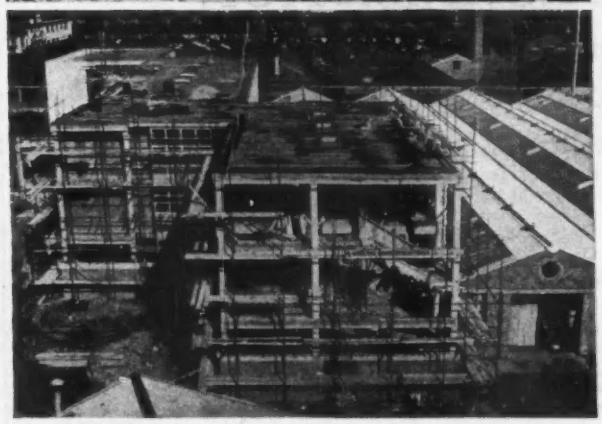
As the frame went up Bison Wide Slab units filled in the floors.
Illustration shows a Wide Slab roof light unit being hoisted into position.



June

Construction continued.

Note low level cill beams on metal brackets bolted to columns and eccentric beams in position on haunches.



July 7th

Frame, floors and roof complete.

General view of Despatch Blocks showing work of reconstruction consisting of three-storey frame building and approximately 24,800 sq. ft. of flooring and roofing.
Bison Wide Slab units were used throughout because of the additional speed of erection which they permit.

✷ Garrard Engineering Works, Swindon.
Architects: R. J. Beswick & Son, F.R.I.B.A., Swindon

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TOWN PLANNING DECISIONS

HOUNSLOW FACTORY PROPOSALS

Minister Allows Development on part of Five-Acre Site

FOLLOWING a public inquiry at which it was said that the issues involved were of 'vital consequence to all Middlesex industrialists,' the Minister of Housing and Local Government has granted permission for the erection of a factory and offices by Perrett Control Co. Ltd. on about an acre of land at Windmill Farm, Green-lane, Hounslow.

He has, however, overruled his Inspector's recommendation that a further appeal, for permission to develop the whole of the five-acre site as a general industrial estate, should also be allowed.

Planning consent had been refused by Middlesex County Council, and the company's appeals were supported at the inquiry by Heston and Isleworth Borough Council.

The Inspector, in his report to the Minister, said that the Council was seeking to implement its industrial policy by preventing the appellant company (and others in a like position) from relocating itself and was requiring it to remain in what were admittedly inadequate and unsuitable premises for fear that, if it left, the premises would then be reoccupied by industry from outside Middlesex. The Council had adopted the method in default of any other effective means of implementing its industrial policy, and whilst that policy was essential to the success of the Development Plan, the Inspector could not accept that their method of implementation in this case was a proper method of planning control. With regard to the question of removal to a new or expanded town, the appellant company was a small local business, it had no intention of leaving the Acton-Hounslow area and it had found itself a suitable site. The Inspector recommended that both appeals should be allowed, subject to the condition that no part of the appeal site should be occupied by other than Middlesex firms, for the reason that the proposed development accorded with the Development Plan allocation.

The Minister notes, in the course of his decision, that the whole of the appeal land is allocated for industry in the approved County Development Plan. However, when approving the Plan, he made it clear that land so allocated was intended primarily for misplaced industry, already in the county, which could not reasonably move out. To grant permission for the whole of the five-acre site to be developed for industry would not, even if a condition was imposed to restrict its use to firms already in Middlesex, prevent the land being occupied by firms already in the county which could reasonably move elsewhere. The Minister therefore thinks it would be wrong to grant permission for this proposal, as it would be prejudicial to the Council's policy of restricting the growth of industry in the county.

With regard to the appellants' proposal to erect a building for their own business on one acre of the land, it is not disputed that their existing premises are inadequate and the Minister notes their comments on the difficulties of moving far away from their present premises in the county. He has come to the conclusion that in all the circumstances it would be unreasonable to refuse permission for them to be relocated at Hounslow. He does not think that the fact that their existing premises may be reoccupied by a non-Middlesex firm is sufficient justification for denying the appellants the opportunity to relocate their industry within an area allocated for industrial use.

He has therefore decided to dismiss the appeal in respect of the five-acre site and to allow the appeal in respect of the one-acre site. Accordingly, he hereby grants permission for the erection of a building of 4,850 sq. ft. for the manufacture of machine control units, subject to the conditions that (1) the siting, design and external appearance of the building, and the means of access thereto, shall be as may be agreed with the local planning authority; and (2) until December 31, 1971, the premises shall be used only by a firm or person occupying at the date of this permission a building within the county of Middlesex which is used as a general or light industrial building.

THREE-YEAR LIMIT ON LAND USE: APPEAL DISMISSED

A SHORT HEATH building contractor must conform to the Willenhall Urban District Council's decision to impose a three-year time limit on permission to use land behind his house as a builder's yard.

Announcing his rejection of an appeal against the decision by the builder—Mr. R. Stokes, of 24 Wood-lane, Short Heath—the Minister of Housing and Local Government states that the permitted use should cease in 1962.

At the hearing of the appeal on November 5 last it was stated that the limit was imposed because the whole area was zoned for residential purposes.

Mr. Stokes then protested that owners of private businesses in the same area who had not sought planning permission were being allowed to continue without planning permission.

Recommending the dismissal of the appeal, the Inspector has stated that what had happened on adjoining land did not alter the fact that the yard had always been the subject of a limited period permit. As some carpentry was carried on there by mechanical means the use of a circular saw could be annoying to neighbours.

In his view the use of the site as a builder's yard would contravene the proposed residential zoning. It would also be injurious to the visual and actual amenities of adjoining properties.

Use of Plastics in Plumbing Work

The Brixton School of Building is providing a one-week course on the use of plastics in plumbing work. The course is intended mainly for plumbing teachers who wish to introduce work on plastics into the courses for plumbers provided in their colleges. The course will start at 9.30 a.m. on Monday, July 20, and will end at 4.30 p.m. on Friday the 24th. About half the time of the course will be spent in workshop practice on work in plastics. The remainder of the course will be devoted to specialist lectures and visits to works. Tuition fee for the course for London students will be 15s. Further particulars may be obtained from the Secretary, LCC Brixton School of Building, Ferndale-road, SW4.

OBITUARY

R. Mansell, FIOB, MRSH

WE ANNOUNCE with regret the death of Mr. R. Mansell, FIOB, MRSH, who was born in Shere, Surrey, in September, 1879. Later Mr. Mansell came to Croydon to learn bricklaying under his uncle, after which he served as a journeyman and foreman for several well-known London firms.

In 1906 he went into partnership as Lambert and Mansell and commenced on his own at Grant-road, Croydon, in 1908. The business was made a limited company in 1932, and has steadily grown over the years. A branch was started prior to the war at Kensington and the businesses of T. Graham and Co., of Beckenham, and A. J. White and Co. at Westminster, have been acquired.

Mr. Mansell was until recently a member of the council of the Institute of Builders; he was a liveryman of the Painters Stainers Company and a freeman of the City of London. In 1958 he celebrated his 50th year as a master builder, and a supper dance for members of the staff and their ladies was held at Croydon in May last year followed by a cocktail party later in the year. He was a keen bowler and in addition to membership of a number of London clubs had his own 2-rink green at his home.

A. L. Elliott

IT IS with deep regret that we announce the death, on March 7, of Mr. Albert Lionel Elliott, chairman and managing director of Samuel Elliott & Sons (Reading) Ltd., in Baghdad, following an accident at Baghdad, Iraq.

Mr. Elliott was engaged at the time on the company's business at the new Iraq Houses of Parliament, where the firm has the contract for the interior woodwork. A grandson of the founder of the firm, he passed through all the stages of the business from an apprenticeship upwards and succeeded his father (the late Mr. A. S. J. Elliott) as joint managing director in 1946. He was twice president of the Reading and District Association of Building Trades Employers.

THE LIVING TOWN

Symposium at the RIBA

A ONE-DAY SYMPOSIUM is to be held at the Royal Institute of British Architects, 66 Portland-place, W1, on May 22, beginning at 10.a.m. It is called 'The Living Town,' and deals with replanning and renewal. The chairman will be Sir William Holford, FRIBA, PPTPI.

The speakers will be Mr. Hubert Bennett, FRIBA, The Hon. Lionel Brett, FRIBA, Sir Hugh Casson, FRIBA, Mr. P. Chamberlin, FRIBA, Mr. R. Edmonds of the LCC, Mr. Percy Johnson-Marshall, ARIBA, Mr. A. Ling, FRIBA, Professor R. Matthew, CBE, FRIBA, and Mr. D. Percival, ARIBA.

Tickets cost £1 each and include admission to the Symposium, a copy of the printed report, coffee and tea, but not lunch. Application forms can be obtained from the Secretary at the RIBA.

There is also an exhibition on the same subject, designed by the Society for the Promotion of Urban Renewal in collaboration with the RIBA and the Civic Trust. It will remain on view until May 27.

PICCADILLY CIRCUS REDEVELOPMENT

New Building Approved by LCC

REPORTING to the meeting of the London County Council, on March 17, on the first stage of the redevelopment of Piccadilly Circus the Town Planning Committee state that they seek to preserve and enhance the special character of Piccadilly Circus as well as to improve it as a vital road intersection.

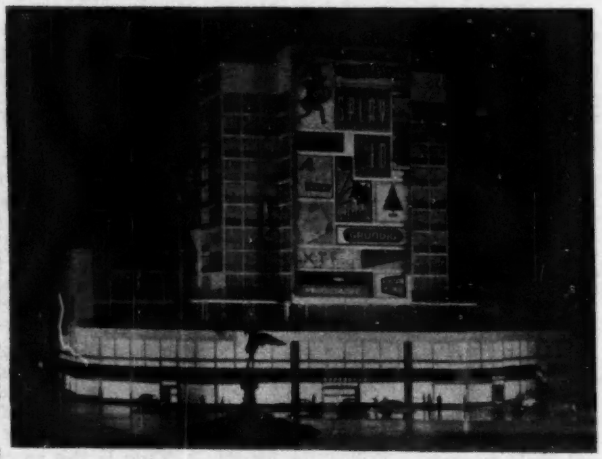
The first stage combines an LCC road improvement scheme for cutting back the corner on the 'Café Monico' site between Shaftesbury-avenue and Glasshouse-street, with the private redevelopment of the 'Café Monico' site bounded by Shaftesbury-avenue, Denman-street, Sherwood-street and Glasshouse-street. The Town Planning Committee report: 'We have also now approved the details of the building to be erected on the major part of this site. The new building has been designed with due regard to existing buildings round the Circus and to the lines of possible future development; it consists of a tower, rising to a height of about 172 ft., on a podium, two floors high which covers most of the site and is set back to the lines of the road improvement. The lower floors will be for shops and a bank and those above for restaurants, exhibition purposes and offices. Special attention has been paid to the difficult problem of illuminated signs in the new Circus and the proposed building has been designed so as to provide adequate daylight for the various uses and at the same time ample wall-space for illuminated signs. Car parking is to be provided in a separate building off the site.'

The second stage of the road improvement, which is not expected to be carried out before 1965, will affect the London Pavilion site (which the Council already owns) and land on the east side of Great Windmill-street, and will enable improved traffic circulation to be introduced.

Both stages have been considered by the Town Planning Committee as parts of a comprehensive scheme which is being used as a basis for consultation with prospective developers without the Council necessarily being committed.

Dealing with the tentative comprehensive scheme, the Town Planning Committee report: 'Piccadilly Circus is one of the busiest distributing points for traffic in London. It is, however, much more than that. Situated as it is at the heart of the liveliest part of the capital and surrounded by theatres, cinemas, departmental stores, restaurants and cafés, it has a very special place in the hearts of Londoners.

'The aim of the tentative scheme drawn up by the Council's Architect is to maintain the special character of the Circus and to ensure that any new buildings which may be proposed will fit in with the design of the new Circus as a whole and make satisfactory provision for the movement of pedestrians, the arrival, parking and departure of cars, the servicing of the buildings and the provision of illuminated advertisements and signs.'



Model of building proposed for the Monico 'island' site, Piccadilly Circus, showing an imaginary treatment of the advertisement signs. Architects: Cotton, Ballard & Blow; consulting architect: J. G. L. Poulson

ACCIDENT PREVENTION AND THE TEACHING METHOD

Talk at Technical College

MR. J. HAYWARD (Superintendent Safety Officer, John Laing & Son, Ltd.) gave a talk to the North-Western Educational Association for the Building Industry in the new building of the Lancaster and Morecambe College of Further Education at Torrisholme on February 21. His slides showed the appalling working platforms erected on some sites, whilst others showed what could be done to enable a man to 'get to and from his work in safety and to carry out his work under safe conditions.'

Mr. Hayward warned the teachers about allowing workshop practice to be carried on without observing the regulations, and the appropriate extracts, etc., should, he said, be posted up in all technical college workshops and the regulations be available for all students to study. Preferring the words 'accident prevention' to 'safety,' he said that it was an indispensable element of teaching and had craftsmen been taught properly many of them would never suffer the injuries which befall them, particularly the younger men, and the time lost due to industrial accidents would not be nine times that lost due to industrial disputes.

He showed graphically on the blackboard and by visual aids the chain of events resulting in an accident and indicated how many accidents could be avoided by the removal of hazards inherent in unsafe acts and unsafe conditions.

The next meeting of the Association is at the Grosvenor Museum, Chester, on April 15, when Mr. Harvey G. Frost will speak on 'Recruiting and Training for the Building Industry.'

THE BUILDING SURVEYORS' INSTITUTE

Revision of Examination Regulations

THE Building Surveyors' Institute held a members' luncheon on February 28 at the College Refectory, Willesden Technical College during the Silver Jubilee Celebrations of the College. Mr. A. E. Jeffery, principal of the College, and Mr. Norman Keep, Head of Department of Architecture and Building, were guests.

Following the luncheon, an extraordinary general meeting of members was held in the Lecture Hall. At this meeting the president of the Institute, Mr. A. S. Charlton, MIOB, FBldgSI, introduced the Special Resolution for consideration. Mr. B. F. Goodman, chairman of the Examinations Committee, outlined the reasons for the revisions of the examination regulations and syllabus, stressing the need for a sound basis of examination by which building surveyors in the employment of building and civil engineering contractors, builders or local authorities operating a direct labour scheme, could qualify for membership.

The acceptance of the Special Resolution would give recognition to the Higher National Diploma and Higher National Certificate in Building, the City and Guilds of London Institute Final Examination in Quantities, and to the examinations of other professional bodies, as exemption, either in whole or part, from the new 'Associate' examination. The resolution was adopted unanimously by the members present. The new Regulations became effective as from March 1 last. Full details can be obtained from the Institute at 186/7 Temple Chambers, Temple-avenue, EC4.

Following the meeting a demonstration of cement finishes was given by the Cement Marketing Company. Following this a film was shown entitled 'Work Study Aids Builders.' This was the first public showing of this film made by the Willesden Branch of the British Productivity Council.

MONORAIL PROPOSAL

Prototype for Basildon

A BRITISH MONORAIL is planned for a 156-acre site at Basildon, Essex. The monorail will have diesel-engined carriages travelling at high speed on a single rail built of concrete. Officials of the Basildon Development Corporation will make the site available for a test track a mile and a third long. The project will cost £240,000. Laying of the track to be used for testing and demonstration starts next month.

Behind the project is Mr. John Lowe, aged 37, designer of the system and managing director of a British company backing the scheme. He said: 'When the prototype is built we will demonstrate that monorails can solve the problem of speedy transport from the west end to London Airport. If the Government give permission we are ready to begin construction of an £8m. project that would cut the journey to 15 minutes.'

The carriage to be demonstrated at Basildon will seat 51 passengers and travel at 80 miles an hour.

and a BILSTON ATLANTA

Accepted by the Council of Industrial Design for Design Index

. . . what more could we ask!

When buyers are considering a new home, the bathroom can often be the deciding factor! A Bilston Atlanta appeals instantly because of its distinctive line and brilliant finish. Made for lasting beauty, Bilston baths are in White, or the exact colour required for any decorative scheme. Specify the Atlanta—it costs no more than an ordinary bath.

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The Atlanta can be specified for any bathroom, large or small! As well as the 66", the Atlanta comes in 54", 60", 61" (available in two widths), and 72" lengths.

The Atlanta 54, 60 and 61 must be preferred to any other baths of these sizes because they are exact replicas of the full size bath, scaled down to small proportions.

Atlanta flat bottom helps to prevent slipping—ensures comfort.

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Taps can be fitted in three different positions to meet all possible requirements.

Corner tap mounting facilitates installation and maintenance.

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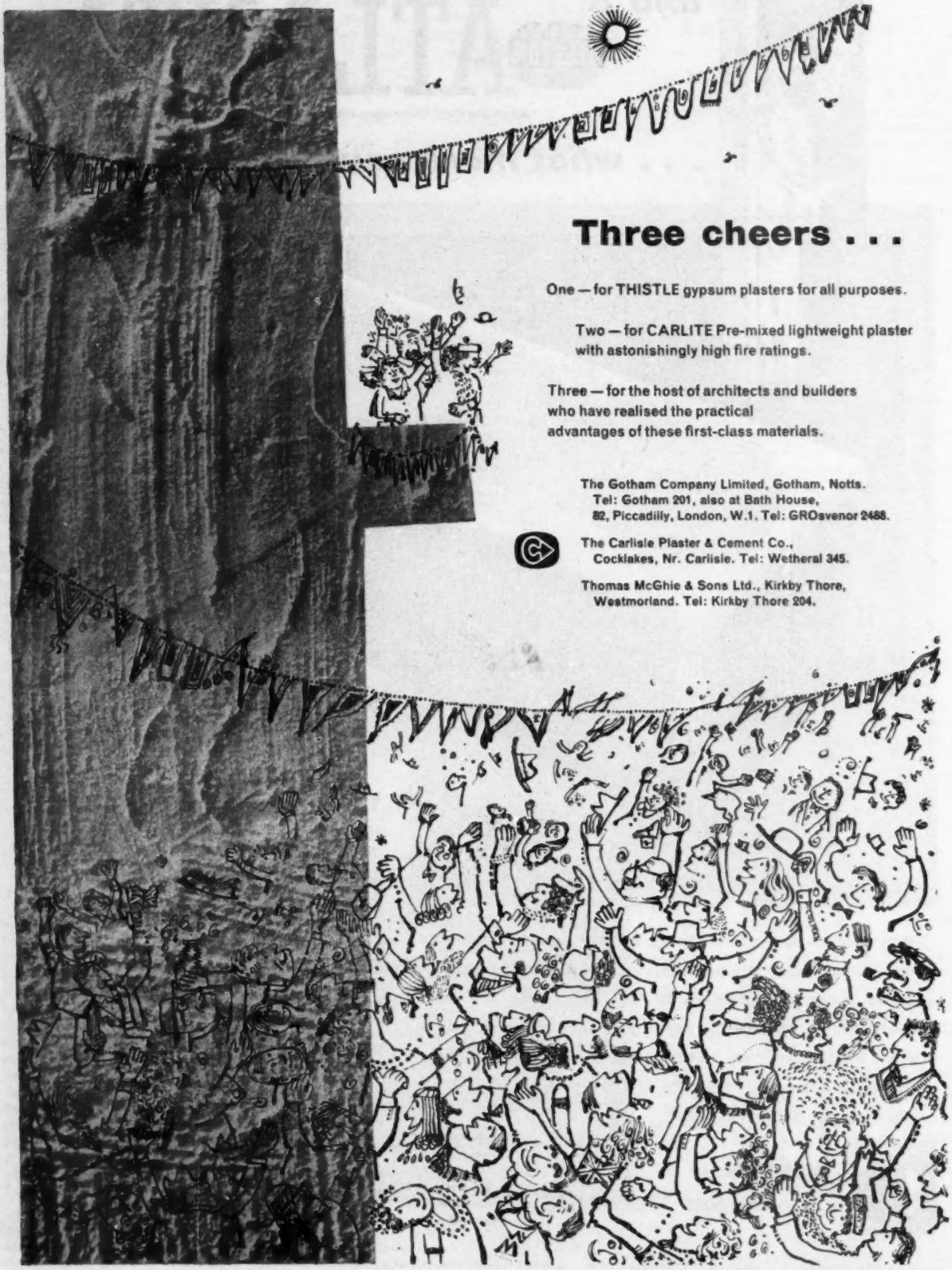

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IN PARLIAMENT

By Our Parliamentary Correspondent

HELP FOR FIVE NEW AREAS

THE addition of five areas to the list of places with a level of unemployment higher than the national average, where Government financial assistance was available for suitable projects under the Distribution of Industry (Industrial Finance) Act, 1958, was announced in a written reply on March 10 by MR. JOHN RODGERS, Parliamentary Secretary to the Board of Trade.

The new listed areas are: In County Durham—Sunderland, Pallion and Southwick; in Lancashire—Oldham, Shaw and Middleton, Rochdale and Littleborough; in Scotland—Arbroath and Carnoustie, Sanquhar.

MR. JOHN MACLAY, the Secretary of State for Scotland, also announced in a written reply that after consulting local authorities and public bodies in Scotland about measures to relieve unemployment in their areas, he expected that additional works amounting to more than £9,500,000 would be carried out by March, 1960, which would otherwise have been carried out later. Details were:

Schools, technical education, etc., £2,800,000; housing, £2,100,000; hospitals, £1,150,000; electricity boards, £1,000,000; roads (trunk and classified), £810,000; miscellaneous Local Government services, £600,000; township and livestock rearing area roads, agricultural estate buildings, etc., £515,000; unclassified roads (including street lighting), £480,000; local health services, £220,000; total, £9,675,000.

FINANCING A NATIONAL THEATRE

IT was indicated by MR. ERROLL, Economic Secretary to the Treasury, in an adjournment debate on March 10, that what would make it particularly difficult for the Chancellor of the Exchequer to proceed with the construction of a National Theatre on the South Bank—an expensive project of itself—would be the need from the outset for a large annual subsidy 'which would be likely to grow rapidly.' He added: 'I do not want to paint too black a picture. We all hope that it may be possible to find a way out of these difficulties.'

Mr. Erroll said that in July last year the Chancellor received a deputation representing the National Theatre Committee and the Arts Council and two important facts came to light. The first was that the capital cost of the National Theatre building was likely to be £1,750,000, and secondly was that it would need a continuing annual subsidy which might be as much as £300,000 a year. The Arts Council in their inquiry into the housing of the arts had prepared their report in four sections—London, the English provinces, Scotland and Wales. The sections on London, Scotland and Wales had reached the Chancellor and that on the English provinces would follow later this year. It was for the council to decide when the sections were published.

The Chancellor would give careful consideration to the report. He would want to consider the sections together so that the demands of the country as a whole could be seen and judged in balance. They wanted to be satisfied there was general acceptance for the concept of building a national theatre. At the time of the closure of St. James's Theatre there were suggestions that money could be better spent preserving existing theatres than in building new ones.

HOUSE PURCHASE AND HOUSING BILL

HAVING completed the report stage, the House of Commons gave an unopposed third reading and passed the House Purchase and Housing Bill on March 11. The next day the Bill was given a formal first reading by the House of Lords. During the report stage there was a long debate on an Opposition amendment to the clause relating to the approval of applications for standard grants. The amendment was designed to compel landlords to apply to local authorities for standard improvement grants.

MR. HENRY BROOKE, Minister of Housing and Local Government, said that the Government's approach in drafting and preparing the Bill was that they should seek to provide for speeding up the provision of standard amenities, by way of the new standard grant, on a basis of agreement. The Government had been asked to accept an amendment to ensure that the tenant was in agreement. This new amendment presumed disagreement and sought to provide a system of compulsion to force the carrying out of improvements.

Mr. Brooke was quite sure that there was so much that could be done by agreement that there was no need here and now to introduce the principle of compulsion. He did not share the view of those who assumed, without evidence, that standard improvements would not be carried out by landlords unless they were under threat of compulsion. Under the Bill owners of houses were given new opportunities of improving their houses. They could look forward to receiving standard grants as of right, which they never could before. The owners of house property were being offered a new deal and this ought to be given a fair trial so that they could find out what results it would achieve.

'My own belief is that the results will be far-reaching,' he said. 'Not unless and until it can be shown that proceeding by way of incentive and agreement will not solve this problem, could the Government advise Parliament to introduce, as we think unnecessarily, the element of compulsion.'

On a division the amendment was defeated.

When he moved the third reading of the Bill, MR. BEVINS, Parliamentary Secretary to the Ministry of Housing and Local Government, said that they had now reached the position in which about 4m. people owned their own homes and the Government were anxious to see these figures increased.

The Bill was probably the greatest single measure to help home ownership that had ever been introduced by a British Government. One of the effects of this scheme would be to free more of the building societies' own funds for advances on other houses, either more modern houses or more expensive ones. The Government's object was also to simplify the existing scheme of grants in the hope and belief that this would lead to a big expansion in works of improvement. They hoped the system of standard grants would be used extensively not only by owner-occupiers but also by the owners of tenanted property.

Replying to the debate, MR. BROOKE said the provisions of the Bill would directly or indirectly loosen up the facilities for the purchase of almost every type of house.

PROVISION OF EMPLOYMENT

GOVERNMENT spokesmen in the House of Lords during a long debate on unemployment on March 11 vigorously defended the Government's efforts to reduce unemployment. They were able to review and give a progress report upon the machinery for attracting new industry and building new factories in areas of high unemployment.

Regarding the latter, the EARL OF DUNDEE, Minister without Portfolio, said that in the last 12 months 277 industrial development certificates had been given, and it was estimated that these provided employment for 13,000 people.

The Earl of Dundee said that under the new DATAC area provisions the number of approved schemes was not very large; it was only 22. There were another 40 under consideration, but there were a very much larger number of inquiries which had not yet reached the stage of final consideration. The Government hoped that a great deal more would be done by means of these inducements to get more industries to go to those areas of high unemployment.

LORD FORBES, Minister of State, Scottish Office, said he had been impressed by the need to improve sites by clearing away old factory buildings and he hoped the DATAC grants would do something to make some of the older industrial districts of Scotland more attractive to modern industry. Coatbridge Town Council had been authorised by the Secretary of State to acquire a large derelict area in the heart of Coatbridge with a view to clearance. He hoped this site adjoining the main railway line would prove attractive to new industrial enterprise when the clearance operation was complete.

PRISON BUILDING PROGRAMME

A £3m. building programme involving the construction of new prisons, Borstals, detention centres, workshops and staff quarters and alterations and improvements to all types of existing premises, is to be carried out in the next financial year. Details are contained in the Estimates for the Home Department, Law and Justice, 1959-60, pubished on March 12. This programme, representing an increase of £2,075,720 on the current year's work, carries into effect the proposals contained in the Government White Paper *Penal Practice in a Changing Society* reported in *The Builder* of February 13.

A vote of £264,000 is required towards the acquisition and adaptation of premises, including accommodation for staff, for three new prisons and two borstals, for which the revised total estimate is £400,000. £250,000 is needed for the purchase of site and erection, including staff quarters, of the second permanent security training prison at Hindley, provisionally estimated to cost £900,000. For a psychiatric institution at Grendon a revised estimate of £1,221,000 has been made and the estimates provide for a vote of £85,000.

The estimates also include the following details—the first figure is the total estimate for the work (with an asterisk denoting provisional estimate) and the second figure is the vote required for 1959-60:

Acquisition and adaptation of properties

for six detection centres (revised estimate), £423,000*, £200,000 (£182,879 voted in previous financial years has already been spent on this work); erection with staff quarters of permanent security borstal for boys at Swinfen Hall (revised estimate) £557,750, £11,500; erection with staff quarters of permanent security borstal for girls at Bullwood Hall, £290,000*, £60,000; acquisition and adaptation of property for central borstal allocation centre at Ashford (Middlesex), £430,000*, £200,000; adaptation of property for open permanent borstal for girls at Moor Court, £55,000*, £13,000.

Acquisition and adaptation of properties, including staff quarters, for three open borstals for boys (revised estimate), £300,000*, £150,000; erection with staff quarters of remand centre and regional observation prison at Risley, £1,250,000*, £10,000; acquisition and adaptation, including staff quarters, of sites for six more detention centres, £570,000*, £130,000; conversion of women's prison Aylesbury to a male establishment, £185,000*, £20,000; purchase of sites for six more remand centres and regional observation prisons, £60,000*, £10,000; purchase of sites for six general purpose security prisons for men, £100,000*, £20,000; purchase of sites for two permanent securities borstals for boys, £20,000*, £20,000; purchase of sites for 1,500 officers' quarters at various prisons, £150,000*, £20,000.

Money is also sought for new boiler houses and plant installations at prisons at Dartmoor, Wandsworth, Rochester, Holloway, Birmingham and Stafford. A vote of £35,000 is sought towards a new assembly, dining and classrooms block at Dartmoor, provisionally estimated to cost £50,000.

In providing and improving officers' quarters, the estimates include £509,000 towards providing 715 quarters for staff at various establishments, and £207,000 towards 16 workshops provisionally estimated to cost £270,000. It is also provisionally estimated that £495,000 will be needed for modernising and improving sanitary accommodation at various establishments and a vote of £170,000 is sought for 1959-60. £300,000 is estimated to be needed for minor works and acquisitions.

In Scotland a vote of £435,693 is sought, compared with £132,380 in the present financial year. This includes £100,000 towards two detention centres estimated to cost £150,000 and £25,000 towards a new male borstal institution estimated to cost £550,000.

Civil Defence increases include £359,000 for a building programme of posts and headquarters for the Royal Observer Corps, who are providing a national radioactivity monitoring service.

THE BUILDING (SCOTLAND) BILL

It was unsuccessfully argued during the committee stage of the Building (Scotland) Bill in the House of Lords on March 12 that agricultural buildings other than dwelling-houses should be removed from the scope of the Bill and that the building standards regulations should not apply to them.

Lord Forbes, Minister of State, Scottish Office, replying after debate, said that one consistent principle running through the Bill was that the only effective way of dealing with the confused state of Scottish building legislation was to wipe the slate clean and make a fresh start. It was desirable that within the field of building control the jurisdiction and functions of dean of guild courts should be clearly understood, clearly expressed and accessible.

The Minister of State moved two further amendments, which were accepted, which, he said, provided that where an owner wished to carry out building with an unusual form of material—'something like solidified porridge'—the building authority could ask for the material to be tested before granting the warrant. A further amendment, also accepted, provided for inspection and tests to be carried out on buildings which had been begun before the coming into effect of the Bill.

A new clause has been made of the provisions for occupying parts of roads for the deposit of materials. This will give the buildings authorities permission for the materials being used, not only for maintenance, but for building and demolition, to be deposited on roads. It gives authority for the buildings authority to delegate their responsibility in this respect to the clerk or master of works.

OTHER BUSINESS

Factory Experiment

Answering two requests on March 4 to build an advance factory on Merseyside, Sir David Eccles, President of the Board of Trade, in a written reply, said: 'Out of 1,100 factories in the possession of the Board of Trade, there are 41 vacant. I intend to advertise more widely the merits of these vacant premises and at the same time to make an experiment by building one advance factory of standard pattern on three sites to be selected, one in England, one in Scotland and one in Wales. This experiment should demonstrate whether or not vacant premises in difficult areas are an attraction to industrialists. I will keep the claims of Merseyside in mind.'

Committee Stage Concluded

The committee stage of the Town and Country Planning Bill was concluded on March 5.

Compulsory Purchase

Under a new procedure, pending legislation, safeguards are to be provided for owners of land in cases of compulsory purchase for defence purposes to which the Land Powers (Defence) Act, 1958, do not apply. Announcing this in a Parliamentary written answer on March 6, Mr. Soames, Secretary of State for War, recalled it was the Government's intention to apply safeguards to all compulsory purchases of land for Defence purposes, but that to do so by statute involved amending the Defence Acts.

This was a major task and, although much work had been done, he said, they were still only in the preparatory stages. Few cases of compulsory purchase by Defence departments were likely to arise in the near future but it had been decided that pending legislation they would provide safeguards by administrative action outside the ambit of the Act.

Under the new procedure which he detailed, owners, lessees and occupiers of land which it was proposed to acquire, would have an opportunity to object to the proposed acquisition and have their objections heard at an inquiry held by an independent person. As in cases under the Act, security considerations might sometimes require that the inquiry should be held in private, but hearings would be in public whenever possible.

Malta Harbour Contract

Sir Arthur Harvey asked the Secretary of State for the Colonies on March 10 on what basis was the contract given to the Royal Netherlands Harbour Works Ltd. for the construction of a new deep-water wharf to be built at Malta; and how the British tenders compared with the one accepted.

Mr. Amery, Under Secretary, Colonial Office: 'Tenders for the construction of a deep-water harbour were invited on the basis of open competitive bidding. That of the Royal Netherlands Harbour Works Ltd. was accepted on the recommendation of a UK firm of consulting engineers. The lowest British tender was about £89,000 more.'

Sir A. Harvey: 'Is it the policy to accept the lowest tender? Will he bear in mind it is unfortunate that with all the millions of British taxpayers' money going into Malta, this business has been given by contract to Continental firms at a time when British firms badly needed work?'

Mr. Amery said the award of the contract was made by the Malta Government and it had not been the policy of HM Government to make financial aid to a territory dependent on the award of contracts to British firms.

Import of Baths

Mr. Hugh Molson, Minister of Works, replying to Mr. Gibson on March 11, said that he had no information about subsidies on imported baths. The number of baths imported was some 2 per cent of United Kingdom production and he could not think the effect on the home market had been significant.

Statistics given with this reply stated that only weight and value were available. The figures did not cover baths made of plastic or fire clay. The figures stated that 7,656 cwt. valued at £35,029 were imported in 1957 and 26,313 cwt. valued £121,285 in 1958.

Qualifications of Inspectors

Dr. Barnett Stross asked the Minister of Labour how many factory inspectors attached to the divisions of the Factory Department were assigned to spend most of their time in the inspection of building sites and works of engineering construction; and, of these, how many had professonal qualifications in building construction or in civil engineering.

Mr. Iain Macleod wrote in reply on March 11: 'Seven inspectors spend most of their time on this work. None of them has professional qualifications in building construction or civil engineering.'

£60m. for Newport Steelworks

The Minister of Power, Lord Mills, announced in a written reply in the House of Lords on March 12, that agreement in principle had now been reached with Richard Thomas and Baldwins Ltd., under which the Government will lend up to £60m. towards the construction of an integrated steel works, including a semi-continuous hot strip mill, on a site near Newport, Monmouthshire.

Lord Mills said it was hoped that construction work on the Newport project could begin this summer. The plant should come into operation during 1963.

Delay to Contract Documents

Mr Goodhart asked the President of the Board of Trade on March 12 why a consignment of contract specifications and contract tender documents sent from the United States to a prominent firm of British engineers was held at London Airport from February 3 to 14 until an import licence was obtained; and under what circumstances,

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under his administrative arrangements, an important licence was needed before contract specifications and contract tender documents might be brought to this country from the United States.

SIR DAVID ECCLES: 'Import licences are not required. Owing to a misunderstanding the importer on this occasion was advised that he would have to apply for an import licence, and I regret the delay which was caused. I have taken steps to prevent any recurrence.'

School Costs Per Place

MR. FITCH asked the Minister of Education on March 12, in view of the evidence that local education authorities could not erect schools within the present limits without considerable sacrifice of education facilities, particularly in the case of new grammar schools, what were his plans in the near future for raising the existing cost per place for secondary school building.

MR. GEOFFREY LLOYD: 'The evidence I have shows that local education authorities are still able to build schools of good quality within the current limits of cost per place.'

When MR. FITCH asked the Minister to be more generous in his allowances in future, MR. LLOYD said that the average cost per place on tender had actually been falling during the last year so the situation had somewhat eased.

BUILDERS AND ARBITRATION

From a Legal Correspondent

THE case of Perry *v.* Stopher decided by the Court of Appeal on March 9 is of interest to builders as it deals with the position in relation to costs on an arbitration. The plaintiff, a builder, appealed against a decision of the Croydon county court judge, Judge Rice-Jones, who had refused to set aside an award of the arbitrator under S. 89 of the County Court Act 1934. The arbitrator, who had awarded the builder £11 14s. 2d. on a claim for £54, had at the same time ordered the builder to pay the defendant's costs. The court refused to alter the decision and did not require the arbitrator to give any reasons, even though costs usually follow the event. The defendant had objected to the way in which certain of the works had been done and refused to meet the builder's account.

The actual decision was indeterminate because the plaintiff had not wholly succeeded or failed. In *court* actions following the decision in *Donald Campbell and Co.* v. *Pollock 1927* the successful plaintiff normally recovered costs. If there was any divergence from this rule the discretion must be exercised judicially and reasons given, but that did not apply to the *award* of an arbitration tribunal. In *Lewis* v. *Haverfordwest Rural District Council* Lord Goddard had said in reference to an arbitration that if the arbitrator 'is going to exercise his discretion, he must show a reason connected with the case and one which the court can see is a proper reason.' This was interpreted by the court in Perry's case not to mean that an arbitrator must give a reason but that if he did give a reason it must not be a bad one

PRESTRESSED CONCRETE

Using Its Advantages

'HOW Can the Advantages of Prestressed Concrete Best Be Utilised?' was the title of a lecture given by PROFESSOR H. RÜSCH, Institute of Technology, Munich, to a meeting of the Prestressed Concrete Development Group held at the Royal Commonwealth Society, London, WC2, on Wedesday, March 4.

Having described the technique of prestressing and acknowledged our debt to Freyssinet for the first successful prestressed concrete structures, the lecturer said prestressing is not a more modern type of construction which is going to replace reinforced concrete everywhere. 'It is only a new tool which, in the hands of a skilled engineer, offers many new possibilities for concrete construction which, in most cases, are not open to reinforced concrete. Even then, we should not expect too much. Prestressed concrete has many advantages and many disadvantages—a fact which should not be overlooked. It is not suitable for all types of structure. For instance, I would never design a prestressed concrete umbrella, as many engineers want to do. We can only use prestressing successfully if we understand its scope and limitations and design our structures so as to make full use of its advantages and avoid its disadvantages.'

Having referred to several examples of construction demonstrating the great advantages of prestressing in reducing the section to its minimum, the speaker proceeded: A further possibility is to induce in a beam, by the use of prestress, moments which have the opposite sign to those produced by the anticipated load. It is thus possible to reduce to a large extent the deformations of the structure. Therefore, wherever little deformation or a rigid structure is needed, prestressing is the best way to achieve it. A notable example is a very large foundation about 110 ft. long, 80 ft. wide and about 13 ft. thick, for a steel works with a continuous rolling mill. Through the last set of rollers the steel passes at a speed of about 35 m.p.h. Therefore, a foundation which is completely stiff and does not deform is absolutely necessary. This steel factory to which I refer is situated in a coal-mining district where settlement of anything from 3 to 10 ft. may be expected.

Three large separate foundations were constructed first. On these hydraulic jacks were placed to support the main foundation. By means of the jacks the level of the main foundation can be adjusted accurately, from minute to minute if necessary, by pressing buttons. The total weight of this foundation including the machinery is about 10,000 tons.

It is not easy to design it in such a way that it shows no deformation even under the influence of creep. Prestressing was the best method. It brought the whole foundation into compression and allowed in advance for any bending which might have occurred in the concrete. A further advantage of prestressing is that it can be used to counteract stresses produced by loads in such a way that the statical system of a structure is completely altered. This method has not yet been used enough for its scope to be fully appreciated but it offers very many possibilities.

An example is the frame of an industrial building with a relatively large span in which the beams have to carry a very heavy load. Slender beams were wanted and so we prestressed them, but we did not wish to prestress the columns as well because this is complicated and costly. Therefore, we tried prestressing the beams in such a way that the moment produced by the prestress counteracted the moment produced by the load in the columns, thus avoiding tensile stresses in the columns. The moments produced by the prestress are negative at mid-span and positive at the columns, so that by prestressing the beams moments are also produced in the columns. When the load acts, the moments produced by the prestress will counteract the moments produced by the load.

Shell Structures

Prestressing may also be used to avoid stresses which arise in shell structures near the edges, owing to the conditions of compatibility. Consider, for example, a dome in which the horizontal thrust is taken by a ring beam. If we separate the shell from the beam for the purpose of analysis we find that the membrane state of stress in the shell produces a compression force in the direction of the ring, which means that the diameter of the dome decreases slightly. Under the influence of the horizontal thrust, however, the diameter of the ring increases. Thus, for compatibility, the shell must be deformed. In other words, by taking away some of the horizontal thrust of the shell, bending moments are produced in the shell.

An example is the dome which has recently been built for the Auditorium Maximum at the University of Hamburg. It has a span of 200 ft. and a very irregular shape. It would have been extremely difficult, if not almost impossible, to build it using only reinforced concrete. With prestressed concrete it was not really difficult, although it would have been a rather complex problem to do all the design work on the basis of mathematical calculations. We preferred to use model statics and to study on a model the influence of stress distribution, by this means choosing the best way of prestressing it to arrive at a solution as far as possible free from bending moments.

A well-known example of precast units stressed together is the roof beams at London Airport. It is a major advantage of prestressing that we can sub-divide not only beams but even shells into units suitable for precasting. This has been done in Germany on several occasions in recent years. It is particularly advantageous for shells because most of the forces do not act at right-angles to the joints. It is necessary to produce by the use of prestress a high compressive force in such a joint and so create friction, and therefore allow the forces to cross the joints at an angle. This idea was first used by Freyssinet in France.

I feel that prestressing has not yet been developed to its full potentiality. Every year we discover new possibilities. Each year we find new static systems which can only be built if prestressing is employed.

EVERYDAY THINGS

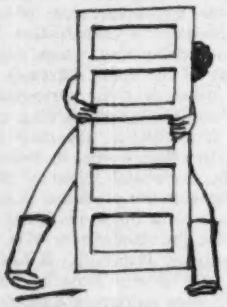
By Arthur W. Kenyon, CBE, FRIBA

LXXII.—Manual Labour

I ALWAYS find myself amazed when I go on a job, as I did today, and climb a 40-rung ladder, to see the amount of manual labour that still goes on. Cranes, hoists, etc., are there to lift vertically, but very little in the way of machinery to carry horizontally. I climbed the ladder once and came down again, but I saw men climbing this same ladder to get to their immediate task many times. Whilst men on the ground were carrying timber on their shoulder—doors, windows, pipes—men on the scaffolding were lifting heavy copings and pushing them along the wall, and I could not but admire the strength as well as the skill displayed.

Often these labouring jobs have to be carried out in muddy, cold and uncomfortable conditions, in dark corners and almost inaccessible positions. The reward for their labour is at the best a job done as well as possible under such conditions.

Building is not an exact science, but more precision is required in modern building than ever before since the time of the Greeks who worked, one assumes, under better climatic conditions. Where are the time-and-motion study boys to



Manual Labour

work out the economy of handling material, and where are the welfare experts who lay down standards of working conditions to see that the men have light in dark places? If they are in the office, then they should be on the job, and if they are on the job then their eyes are not fully open.

I am sure there is a sign of improvement in these matters, but progress is slow and if we are to have the better standards of work which we all claim to be striving for, then a great deal more will have to be done. It does not need an economist to prove that the avoidance of wastage in the use both of labour and material will cheapen the cost of building without loss to the workman or builder.

I find that I can still marvel at the work which goes on to produce a finished building and I never cease to admire the men who enter the building trade. I would like them to feel that their work is being thought about in high places and that their humble manual labours are not being overlooked in the great surge of advance in the more spectacular building operations and techniques.

LMBA

Joint Committee Chairman

MR. T. W. SULLIVAN, district secretary of the Plumbing Trades Union, has been elected chairman and Mr. L. J. Bradshaw, a member of the LMBA Executive Committee, vice-chairman of the Regional Joint Committee for the coming year. The joint secretaries, Mr. R. E. Stenning and Mr. E. L. Jones, have been re-appointed.

Mr. E. Smith, of the LMBA Executive Committee, has been elected chairman, and Mr. A. McCleery, district secretary of the Amalgamated Society of Woodworkers, vice-chairman of the Joint Apprenticeship Committee.

LMBA at Plant Exhibition

THE LMBA is providing a clubroom, on the lines of its clubroom at the Building Exhibition, for the comfort and convenience of its members and of other members of the National Federation attending the Building Plant Exhibition at Greenford, Middlesex, in June. The clubroom will be housed in a marquee in the grounds. The exhibition will be open from June 10 to June 17.

BUILDERS' FOREMEN AND CLERKS OF WORKS

London Regional Council's AGM

THE London Regional Council of Builders' Foremen and Clerks of Works met on March 6, when the following officers were elected for the ensuing year: *Chairman,* Mr. H. Palmer (LABF & CW); *Senior Vice-Chairman,* Mr. H. T. Piesse (LBFA); and *Junior Vice-Chairman,* Mr. E. J. Murrell (PIBF & CW).

The Council recorded its thanks and appreciation to the retiring Chairman, Mr. A. C. Taylor (PIBF & CW), and also to the LMBA and staff for hospitality and service during the past year.

It was reported that the Council of the Institute of Builders had decided to recommend for adoption at an Extraordinary General Meeting of Members of the Institute, to be held on May 20 next, that the following should be eligible for admission to the class of Registered Foreman, to be established under the proposed new structure: (a) Foremen not less than 25 years of age, who have passed examinations approved by the Institute and have been engaged for at least two years as General Foremen in a position considered by the Institute to be sufficiently responsible, and (b) foremen of not less than 45 years of age, who shall have been engaged for at least ten years as General Foremen in a sufficiently responsible position and shall within two years of the adoption of the new proposals have submitted an application for election.

The Council were glad to note that their representations for entry to the new class of Registered Foremen on practice grounds had proved so successful.

The Council considered the questions of the desirable sizes and general conditions of general foremen's offices on sites. While it was generally true that contractors of a fair size provided satisfactory offices and equipment on all their contracts irrespective of size, the standard of offices provided by some small firms left much to be desired. It was suggested that the improvement of welfare and general conditions on sites, to which passing reference was made in the discussion, was one of the means of improving the standard of recruits to the industry, which was considered to be a matter of great importance. It was agreed that the question of site offices should be further discussed at the next meeting of the Council.

The Council noted with regret that Mr. W. R. Toogood (LABF & CW), who had been a member of the Council since its inception was unable to continue to serve and it was agreed that their appreciation of his outstanding service should be conveyed to Mr. Toogood. The Council welcomed Mr. M. J. Cheval in his place.

The next meeting of the Committee will be held immediately before the annual function at the RIBA, 66 Portland-place, W1, on Wednesday, April 29, at 5.30 p.m.

GREEN BELT POLICY

Criticisms at Birmingham Conference

PROFESSOR G. A. GROVE, Professor of Conveyancing and Equity at Birmingham University, speaking in Birmingham on March 13 at a conference called by the Town and Country Planning Association and the Midlands New Towns Society, said that the Green Belt policy had gone much too far. It was no longer a reasonable proposition but a religion, which was well illustrated by planning authorities' refusal to grant building permission since the land was always in a vulnerable part of the Green Belt.

'In fact it is not vulnerable at all and it is time we recognised it and allowed a proper development within the Green Belt of existing communities,' he said. He was not thinking of continuing suburb to suburb but of limited and unharmful expansion of communities such as villages.

Speaking on planning in the Midlands at another session of the conference, MR. DENIS HOWELL, MP, said he hoped that now the Government was able to spend more, it would view more favourably the financing of new towns which had proved such a first-class investment for the country.

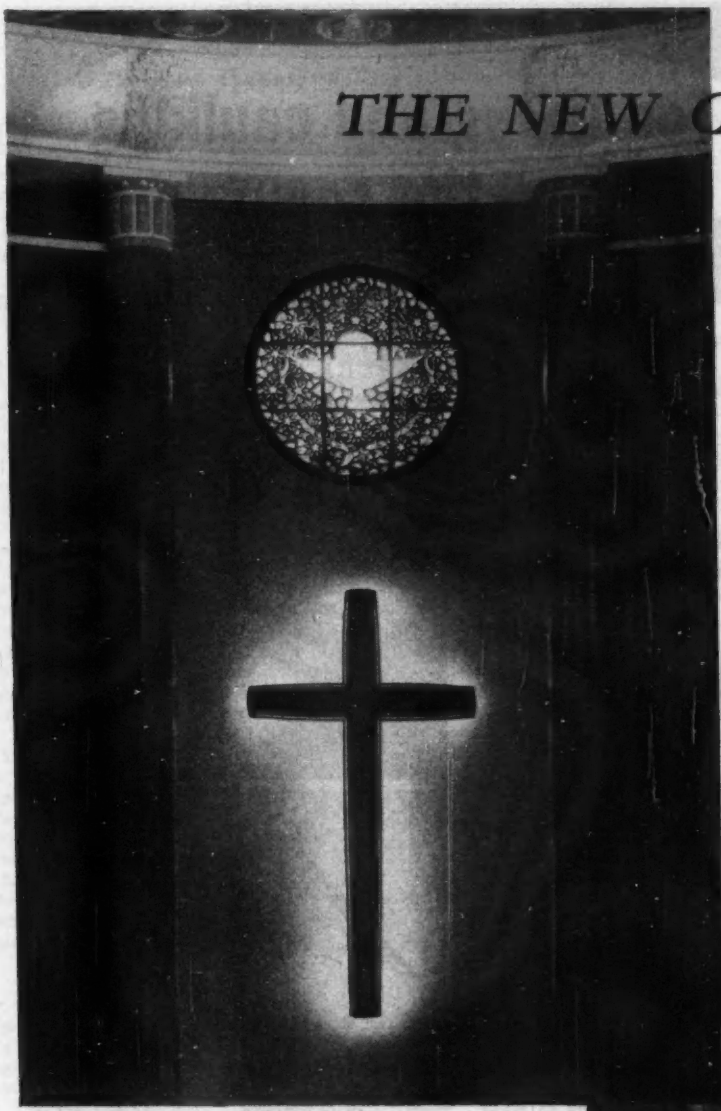
The Green Belt needed to be preserved, Mr. Howell said, but unless something were done the pressure on councils with nowhere to house their population would be irresistible. If a regional planning authority existed it could tackle this problem and reconcile the interests of town, country and industry.

MR. JOHN HOBSON, MP, said that while he was opposed to a regional executive authority because of its remoteness from the ordinary person, there was an argument for a joint advisory planning authority. This would allow the interchange of ideas between authorities and would have the advantage of a permanent staff which could look continually at the difficulties from a regional point of view.

Architectural Prospectus, 1959

The School of Architecture of the University of Auckland sends us its prospectus for 1959. Courses of study leading to the Degree of Bachelor of Architecture, the Diploma of the University of Auckland in Architecture, and the Diploma of the University of Auckland in Urban Valuation are offered. Copies from the School at Lower Symonds-street, Auckland, C.1.

THE NEW CITY TEMPLE



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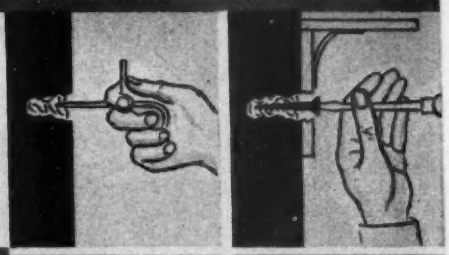

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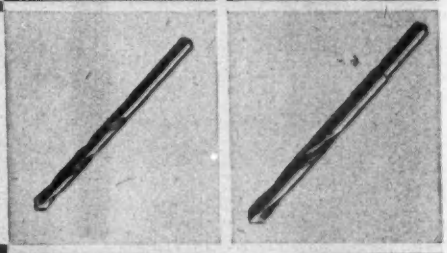

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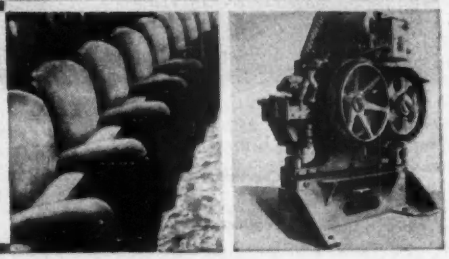

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ASSOCIATES AND DISTRIBUTORS THROUGHOUT THE WORLD

THE INDUSTRY AND RESEARCH

National President Outlines the Position

THE present position of the industry in regard to the vexed question of the financing of building research was outlined by MR. T. V. PROSSER, President of the National Federation of Building Trades Employers, at a Press conference held at NFBTE headquarters in London last week.

Earlier, Mr. Prosser said that quite clearly the industry was emerging from a period of restrictions, and there were definite signs that more work was coming forward. However, in regard to apprenticeship and training they were more concerned with what would happen in ten years' time than in the immediate future, for it was this that must dictate their policy in the matter. On this subject of training, he believed that the building industry was setting an example to many of the bigger industries of this country.

Asked whether the National Federation had come to a policy decision that the building industry should at least pay for the cost of disseminating the results of research, Mr. Prosser said that the short answer was 'No.' In reply to a further question as to what were the aims of the Federation in regard to research generally, the President said that the NFBTE had in fact increased its subscription towards the cost of the DSIR.

The Building Research Station, DSIR, Mr. Prosser continued, had been established for a long time, and it would take the building industry many years to establish a similar fully comprehensive service. He felt, therefore, that there was far more to be derived from closer collaboration with the DSIR than in going off on a course of their own. Many firms were, he said, finding that there was a great deal to be gained through collaboration with Garston.

Building Methods

MR. PETER TRENCH, NFBTE Director designate, said that the Federation was doing a considerable amount of research into the problems of building methods, and hoped to do more in the future.

MR. PROSSER pointed out that a considerable amount of the research undertaken by the BRS was not solely for the benefit of building, e.g., in the case of ceramics.

Asked whether privately undertaken research did not result in a good deal of overlapping and waste, and if he would agree that unless the industry promoted its own research this would result in more and more work falling into fewer and fewer hands, Mr. Prosser said that they already had a central source in the DSIR. The cost of the DSIR, he pointed out, was an infinitesimal part of the national income. Moreover, owners of property benefited from building research as well as the industry, and since the Government owned such a large amount of property they had in this way a considerable return on the money they spent on research.

In regard to the point about the number of firms, Mr. Prosser said that one of the outstanding characteristics of the building industry was the variety of jobs it undertook —from putting washers on taps to building cathedrals. For this reason he did not think that the number of firms was going to change much in the future, and there would continue to be a comparable pattern of building firms to meet the variety of needs.

Asked his views on the growth of the 'all-in' service, Mr. Prosser denied that there was anything new about it in the building industry. There was not a great deal of building going on today under the 'all-in' service, and the amount was not in excess of that of pre-war days.

In regard to whether builders should employ architects, the President said that it would be an 'immense step forward' if house-builders would do so.

Asked if any progress had been made in the prompt payment of accounts by local authorities, Mr. Prosser said, 'Not as much as we should like to see, but we hope that the revised form of contract will assist.'

New Orders in the Construction Industry

INCREASE IN LAST QUARTER OF 1958

CONSTRUCTION—NEW WORK

Great Britain

(i) Value of New Orders Obtained by Contractors

(£ million)

Period	New Housing			Public Authorities	Other New Work			Total other new work	Total all new work	Work not covered by orders*
					Private Developers					
	Public Authorities	Private Developers	Total New Housing		Industrial	Miscellaneous	Total			
1957:										
1st quarter ...	77	83	160	101	58	49	107	208	368	54
2nd " ...	58	73	131	92	55	53	108	200	331	38
3rd " ...	67	58	125	117	51	48	99	216	341	29
4th " ...	51	63	114	86	51	48	99	185	299	36
Total 1957	253	277	530	396	215	198	413	809	1,339	157
1958:										
1st quarter ...	50	72	122	114	54	49	103	217	339	42
2nd " ...	49	71	120	93	46	47	93	186	306	38
3rd " ...	54	72	126	81	49	45	94	175	301	42
4th " ...	65	85	150	93	39	47	86	179	329	57
Total 1958	218	300	518	381	188	188	376	757	1,275	179

* These figures relate to work included in the preceding columns which is to be done without a firm order.

(ii) Value of New Work Done by Contractors

(£ million)

Period	New Housing			Public Authorities	Other New Work			Total other New work	Total all new work
					Private Developers				
	Public authorities	Private Developers	Total New Housing		Industrial	Miscellaneous	Total		
1957:									
1st quarter ...	78	62	140	86	67	44	111	197	337
2nd " ...	81	63	144	95	71	45	116	211	355
3rd " ...	75	59	134	96	69	46	115	211	345
4th " ...	73	62	135	98	68	49	117	215	350
Total 1957	307	246	553	375	275	184	459	834	1,387
1958:									
1st quarter ...	65	60	125	94	69	47	116	210	335
2nd " ...	68	64	132	105	66	50	116	221	353
3rd " ...	62	69	131	109	69	50	119	228	359
4th " ...	57	73	130	105	67	53	120	225	355
Total 1958	252	266	518	413	271	200	471	884	1,402

CONTRACTORS in the construction industry obtained orders for new work valued at £329m. in the three months ending in December last year, according to provisional figures collected by the Ministry of Works. The figures for the four quarters of 1958 and for the four quarters of 1957 are given in the table above, together with figures showing the value of new work carried out in each of the two years.

The main increase in the value of new orders obtained in the last quarter of last year compared with the previous quarter was in the orders for new housing: orders placed for both public authorities and for private developers increased very substantially and the total value of orders obtained for housing was the highest since the first quarter of 1957. New orders for work for public authorities other than housing also rose compared with the previous quarter, while orders for private developers fell by £8m. to £86m.

Despite this reduction in the value of orders, the value of work carried out has been well maintained and, after allowing for price changes, the £1,402m. of new work carried out by contractors in 1958 was less than 1 per cent below the £1,387m. of work carried out in 1957. By the end of 1958 there was more housing work in the programme than at the beginning, but there was probably rather less work in progress on other types of construction.

Construction in the Fourth Quarter of 1958

WORK BACK TO 1956 PEAK LEVEL

THE value of constructional work carried out by contractors in the fourth quarter of 1958, according to provisional figures compiled by the Ministry of Works, was £464m., some £13m. more than in the same period of 1957. This brought the total value of work carried out during the year to £1,819m. at current prices, nearly £30m. more than in 1957. These figures were briefly reported in *The Builder* of March 6.

For the year as a whole the volume of work done as measured by the official index of production showed a fall of one point, or rather less than 1 per cent compared with the previous year. This reduction, however, occurred in the early part of last year. It appeared in October that the output of the industry was recovering following the cuts made in the autumn of 1957 and this is confirmed by the figures for the fourth quarter when output was back at the peak level first achieved in 1956.

Housing work carried out in 1958 was £40m. less than the amount carried out in the previous year. The reduction was wholly in housing work for local authorities and throughout the year the amount of work carried out for private owners continued to rise.

Despite the apparent reduction in the amount of industrial work on hand, as shown by the fall in new orders placed during the course of last year, the output of industrial building was very little below the level of 1957. The output of other types of work for private developers continued to rise last year but less rapidly than in earlier years.

The figures for employment show that 1,000,000 operatives were at work when the count was taken at the end of January. This is 10,000 fewer than in January, 1958, but is a much smaller reduction than the rather large increase in unemployment in the middle of January might have implied. The figures therefore reinforce the impression that the high level of unemployment in the middle of January was due to exceptionally bad weather.

CONSTRUCTION—OUTPUT AND EMPLOYMENT IN GREAT BRITAIN

1. VALUE OF WORK DONE BY CONTRACTORS (at current prices)

£ million)

	1957		1958	
	Fourth Quarter	Year	Fourth Quarter	Year
NEW HOUSING:				
For Public Authorities	73	307	57	252
For Private Developers	62	246	70	263
Housing Total	135	553	127	515
OTHER NEW WORK:				
For Public Authorities	98	375	109	417
For Private Developers:				
Industrial	68	275	68	272
Miscellaneous	49	184	52	199
Other New Work Total	215	834	229	888
TOTAL ALL NEW WORK	350	1,387	356	1,403
REPAIR AND MAINTENANCE	101	403	108	416
GRAND TOTAL	451	1,790	464	1,819

2. OPERATIVES EMPLOYED BY CONTRACTORS (1)

(Thousands)

	1957	1958		1959
	October	January	October	January
New Housing	293	269	270	254
Other New Work	442	432	448	436
Repair and Maintenance	324	309	329	310
TOTAL...	1,059	1,010	1,047	1,000

NOTE: (1) Insured operatives aged 15 years and over, excluding administrative, technical and clerical workers and self-employed operatives.

3. INDEX OF CONSTRUCTION COSTS

The index numbers of the cost of new construction are as follows:

1954=100

1957 Average	1958 Third Quarter	1958 Fourth Quarter	1958 Average
114	115	115	115

4. INDEX OF PRODUCTION

Changes in the volume of work done are shown in the official index of industrial production. The index numbers for construction are as follows:

1954=100

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Average
1957	105	108	105	106	106
1958	103	105	106	108	105

SWEDISH REDWOOD SHIPMENT

Report by EJMA

THE SAMPLE shipment of Redwood shipped to this country by the Korsnas Company was inspected on July 7, 1958, by representatives of the English Joinery Manufacturers' Association together with representatives of the TTF, the shippers, and the shippers' agents in this country.

The EJMA members were Mr. W. Hide, president, Mr. W. R. Price, vice-president, Mr. S. R. Sharp, immediate past president; Messrs. W. E. Adams, G. A. Muirhead, S. K. Finch, N. C. Ripper, I. A. Rutherford, D. K. H. Lindsey and R. S. Jary, together with Mr. R. G. Harvey Greenham, secretary and Mr. P. B. Allnatt.

After preliminary reports by the Association's Inspection Committee, it was agreed that those firms who had arranged to purchase the joinery grades would submit further reports after they had used the timber. The Association, having collated all these reports, comments:—

'The Association is of the opinion that the proposed new system of grading does not represent any great improvement over the present system since the difference in quality between Grades 1 and 2 is not sufficiently marked to establish a clear dividing line between requirements for first quality joinery work and joinery for the lower price range housing market. Accordingly, the Association is of the opinion that manufacturers themselves are better able to select from the present unsorted grade, which, of course, excludes all 5ths, those timbers which best suit their purpose.

'The Association desires to stress that it is still not satisfied with the standard of kiln drying to which this parcel was subjected. It is recognised that the modern trend to quick drying after sawing is imposed by economic conditions, and it is important, therefore, to see that drying time schedules are closely examined in order to produce timber devoid of the defects associated with too rapid extraction of moisture.'

A suggestion made by Mr. Hellman, of the Korsnas Company, that some method of conference should be devised to convey the views of both parties, without the necessity of further experimental shipments, was supported and the Association has now decided that it would be desirable to discuss the better grading and kilning of joinery redwood with the representatives of the Swedish Wood Exporters' Association.

Carpenters, joiners and all types of builders are turning to ASBESTOLUX, the material that is light and easy to work, especially in the small workshop where time is an important factor. ASBESTOLUX gives that professional look to any job you tackle! It won't sag, is rigid and durable and gives a high degree of fire protection.

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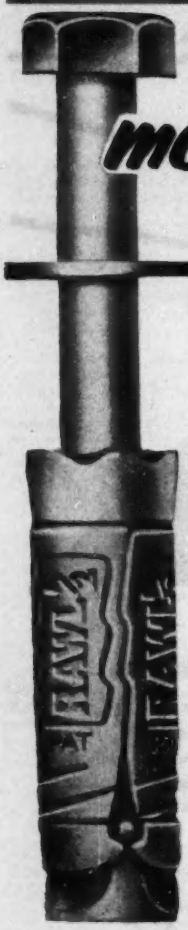

This photograph is a challenge to your imagination. It was taken in the Dolomites in Italy. The fractured mountain face on the left threatened to collapse. It is now held in safety — with *Rawlbolts.* How was it done?

12 tons per Rawlbolt

The whole area shown in the square was supported by K20 Rawlbolts, with high grade tensile steel rods, embedded into the rock to a depth of 66 feet. The Rawlbolts were so spaced as to take a constant load of 12 tons each. It is this standard of performance that accounts for the vast numbers of Rawlbolts used throughout industry every year.

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PAINTING CONTRACTS

Master Painters' Comments on 'Inadequate Specification'

THE National Federation of Master Painters and Decorators of England and Wales has issued the following statement on the subject of inadequate specification of preparatory work on painting and decorating contracts:

'As it is generally accepted that satisfactory preparation is the basis of all good painting and decorating work, it is essential that the specifier's precise requirements should be made known to the contractor. Unfortunately, however, inadequate specification of preparatory work is probably responsible for most disputes arising on painting and decorating contracts and is possibly the principal cause of the wide disparity which sometimes occurs in tender prices. Little difficulty arises regarding contracts or sub-contracts for maintenance painting or the painting of new buildings which are based on the RIBA Form of Contract (where quantities form part of the contract). This is because under clause 10 of this contract all bills of quantities must be prepared in accordance with the principles of the Standard Method of Measurement of Building Works and are required to *"fully describe the materials and workmanship and accurately represent the work to be executed."* They are also required to describe as "provisional" work which, by its nature, cannot be accurately measured, that is—a provisional quantity is to be given which can be priced and will be subject to remeasurement on completion.

Causes of Disputes

'Painting and decorating work is, however, carried out under many other forms of contract, and it is chiefly in such circumstances that disputes arise due to the vague or inadequate wording of the specification or bill of quantities, of which the following are typical examples:—

1. "*Prepare* and apply one coat undercoat and two coats hard gloss paint."
2. "Burn off (and other forms of preparatory work such as scaling and wire brushing) *where necessary*."
3. "The decoration to include for all primers, cleaning solutions and sealers, etc., whatsoever necessary."*

'It is essential that where the term "prepare" is used, the particular items of preparatory work required, e.g., stopping, filling, knotting, etc., should be indicated as a preliminary condition of tender. The various items of preparatory work are described in British Standard Code of Practice, CP.231(1952).

'Frequently the *amount* of preparatory work such as burning-off, descaling, wire brushing, flame cleaning, spot priming, etc., can only be determined after access has been gained and a thorough inspection carried out. It is therefore also essential that where a measured item cannot be provided a provisional quantity, which will be subject to remeasurement on completion of the contract, should be given for the contractor to price.

'In the absence of an accurate description of the preparatory work required and/or a measured or provisional quantity, the tenderer would be legally entitled to determine the nature and extent of the preparatory work.

'From the foregoing it is obviously in the best interests of both the specifier and the painting contractor for all specifications and bills of quantities to be prepared in accordance with the principles of the Standard Method of Measurement of Building Works.'

* Where the contractor is tendering for the painting of a building to be erected he is not infrequently asked to include for the application of a sealer and/or a primer for surfaces which may or may not require this, depending on the type of surface provided.

BUILDING BLOCK MANUFACTURERS

Annual Review by Federation President

THE PRESIDENT of the Federation of Building Block Manufacturers, MR. J. L. CHAPMAN, in presenting the annual review of the activities of the Federation during a meeting held on March 10 at the Piccadilly Hotel, W1, said that during 1958 the industry had been faced with increased costs, reduced demand and, in many cases, lower prices for its products. Due to these circumstances the Federation had lost nine of its members, the majority of whom ceased production. Three new members had been gained.

On costs, the president said, 'Whilst the price of sand, gravel and most proprietary lightweight aggregates remained relatively stable, there was a significant change in clinker prices in the London area towards the end of the year. During the summer tenders were invited for the removal of clinker from most of the large London power stations and, without exception, contracts were let at substantially higher prices. This resulted in clinker prices being increased by 10 to 15 per cent in most cases.'

One of the main outlets for clinker blocks, Mr. Chapman continued, had been local authority housing schemes. In this connection it was significant that, while the total reduction in house building in 1958 seemed to have been of the order of 10 per cent, the reduction in public authority building had been about 20 per cent.

As far as the future was concerned the president thought that once the effects of the lowering of the Bank rate were felt and the speed up and expansion by local authorities of their housing programmes got fully under way, there would be a substantial upsurge in building activity in which, he had no doubt, the members of the Federation would play their part.

Members of the Council for the ensuing year were elected as follows:

South Eastern Region.—J. L. Chapman (president), L. W. Bradley, P. Flynn, H. G. Friswell, L. Herring, J. H. Moore (hon. treasurer), D. D. Render, A. L. Wells.

South Western Region.—T. J. Day.

Midland Region.—R. F. Fearnley.

South Wales Region.—E. S. Rees.

North Wales Region.—C. Reeve (vice-president).

West Riding of Yorkshire Region.—C. R. Longley.

North West Region.—R. J. Harrison.

BASIC MATERIALS

Building Prices Steady During February

THE index for basic materials and fuel rose in February by 0.4 per cent due to higher prices for copper, which showed a further rise of 3 per cent, raw wool and hides and skins. The effect of these increases was offset by lower prices for raw cotton, which fell 4 per cent, zinc, lead and linseed oil.

The February index for all building and civil engineering materials at 144.8* is the same as that for the previous month. The housebuilding materials index for February at 143.1* is 0.1 higher than that for January (143.0*).

Commodity	Feb., 1958	Jan., 1959	Feb., 1959
Coal	142·4	142·0*	142·0*
Slates	130·0	136·1	136·1
Refractory goods, including bricks	124·1	126·0	127·5
Non-refractory goods, including bricks	110·7	109·9	109·9*
Building bricks, common, other than fletton, ex-works	112·5	112·1	112·3*
Building bricks, fletton, common, delivered ...	105·2	105·2	105·2*
Glass (other than containers)	120·1	119·6	121·1*
Cement, delivered	115·3	115·3	115·3
Cast stone and cast concrete products	104·1	102·8	102·8*
Synthetic resins and plastic materials	94·7	91·0	91·0*
Paint for building and decorating	109·0	108·9*	108·9*
Steel sheets	129·5	127·9	127·9
Aluminium and aluminium alloy products (extruded and drawn)	125·1	124·4	124·4
Galvanised cisterns, tanks and cylinders	112·4	112·4	112·4
Home-grown hardwood ...	108·2	97·2	97·2*
Wallpaper	119·8	119·8	119·8
Aluminium, virgin ingots, delivered	126·3	115·4	115·4
Copper, ex-ship, wharf or warehouse	65·5	92·5	95·0
Lead, ex-ship, wharf or warehouse	76·9	74·5	72·5
Zinc, ex-ship, wharf or warehouse	81·6	95·7	94·1
Imported hardwood, ex-yard or wharf	106·1	103·1	103·0*
Imported plywood (delivered to consumers) ...	99·8	93·9	93·9*
Imported softwood (delivered to consumers) ...	106·3	95·6	95·6*

* Provisional.

Course in Surveying and Levelling

A special Summer practical class in Surveying and Levelling for Builders and Surveyors, etc., will be held at the South East London Technical College, Building Department, Lower Sydenham Annexe, Worsley Bridge-road, SE26, on Monday evenings, 6.30-9.0 p.m., for 10 weeks, commencing on April 13, and continuing until June 22. Applicants must enrol personally on April 13 (or before by post), the fee for the course being 16s. 3d.

The Builder

CURRENT PRICES OF MATERIALS

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	4	5
Pit Sand	,,	1	2	8
Washed Sand	,,	1	5	9
¾ in. Shingle	,,	1	3	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,		17	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	5	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	12	0
1 to 6 tons, site	,,	6	4	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	2	6
1 to 6 tons do. site	,,	6	14	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colocrete in 6-ton lots	,,	8	12	0
Other colours according to colour.				
In 4-ton lots from 310s.0d. to 780s.0d. per ton				
White Portland Cement	,,	13	17	6
Under 1 ton	per cwt.		16	11
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	4	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 10s. 0d. to £14 5s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	9	0

BRICKS

Full Loads.

First Hard Stocks	per 1,000	14	14	6
Second Hard Stocks	,,	13	8	6
Mild Stocks (Kiln Burnt)	,,	9	10	0
Mild Stocks	,,	9	5	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:

Commons	,,	5	18	0
Cellular Commons	,,	5	18	0
Keyed do.	,,	6	0	0
Rustics	,,	7	10	0
Cellular Rustics	,,	7	10	0
Single Bullnose Commons	,,	7	12	6
Sandfaced	,,	8	10	0
Tuscans	,,	9	5	0
Saxons	,,	9	13	0
Golden Buffs	,,	10	0	0
Dapple Light Facings	,,	10	7	6
Heather Facings	,,	10	3	0
Best Blue Pressed Staffs (London stations)	,,	30	2	6
do. do. (London sites)	,,	30	3	0
do. Bullnose (London stations)	,,	30	16	6
do. do. (London sites)	,,	30	17	6
Blue Wire Cuts (London stations)	,,	26	19	0
do. do. (London sites)	,,	26	19	6
Midhurst Lime Bricks (London sites)	,,	10	15	6
Uxbridge Whites (London sites)	,,	10	2	0
Special Purpose Sandlime Bricks (London sites)	,,	7	18	6
2½ in. Best Stourbridge Fire Bricks (London stations)	,,	30	12	3
2½ in. do. do. (London sites)	,,	31	1	0
3 in. do. do. (London stations)	,,	36	14	9
3 in. do. do. (London sites)	,,	37	5	3
2½ in. Moler Flue Bricks (London sites)	,,	33	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	per 1,000	16	11	0
2½ in. Machine-made Multi Red Facings (London sites)	,,	16	16	0
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	16	16	0
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	17	11	0
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	3	6
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	3	6
Rubber Bricks for gauged arches (London sites)	,,	47	11	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	14	4	0
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	0	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

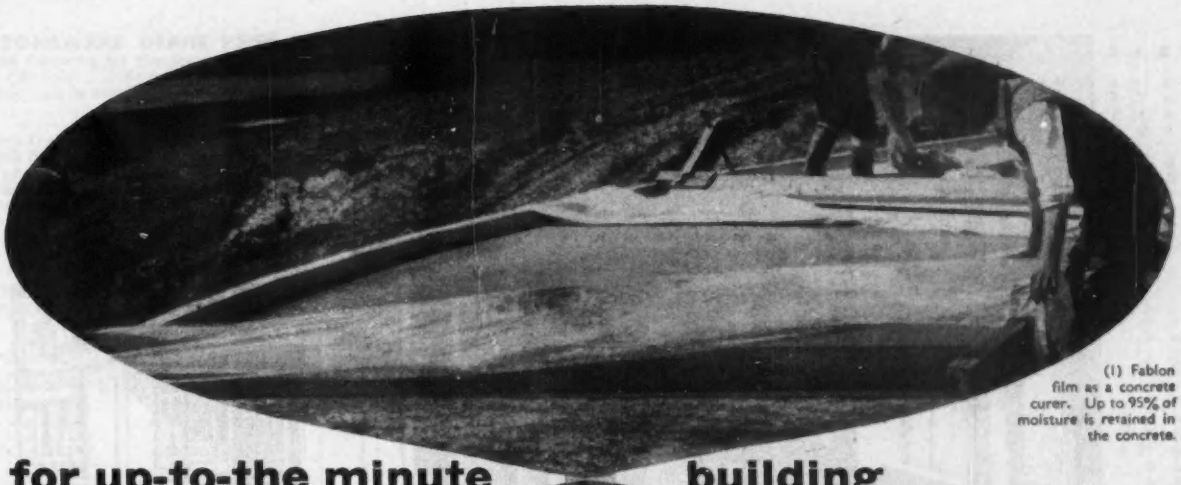
PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

	Minimum lorry loads		£	s.	d.
Hollow Clay Partition Blocks (Keyed)					
*2½in.	140 yds.	per yd. sup.		4	5
Building Blocks (Keyed)					
*3 in. (6 cavity)	110 yds.	,,		5	5
*4 in. (6 cavity)	90 yds.	,,		6	10
6 in. (8¾ in. × 5¾ in.)	1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

Clinker Concrete					
2 in.	100 yds.	per yd. sup.		3	6
2½ in.	85 yds.	,,		4	2
3 in.	75 yds.	,,		4	10
4 in.	55 yds.	,,		6	2
Cranham Terra Cotta					
2 in.		,,		6	9
2½ in.		,,		7	5
3 in. Load bearing quality		,,		8	9
4 in. do. do.		,,		10	9
4½ in. do. do.		,,		11	6
Moler Partition Blocks					
2 in.	150 yds.	,,		15	0
2½ in.	120 yds.	,,		15	3
3 in.	100 yds.	,,		15	6
4 in.	90 yds.	,,		19	0
Lightweight Concrete Building and Partition Blocks of Various Sources of Manufacture					
2 in.	100 yds.	per yd. sup.		5	8
2½ in.	80 yds.	,,		6	5
3 in.	65 yds.	,,		7	5
4 in.	50 yds.	,,		9	4
4½ in.	44 yds.	,,		10	2
6 in.	33 yds.	,,		13	5
Thermalite-Ytong Partition Blocks					
2½ in.	144 yds.	,,		7	0
Thermalite-Ytong Load-bearing Insulating Blocks					
3 in.	120 yds.	per yd. sup.		8	5
4 in.	90 yds.	,,		11	0
5 in.	72 yds.	,,		13	9
6 in.	60 yds.	,,		16	6
8½ in.	42 yds.	,,	1	3	8
Floor Blocks and Filler Tiles					
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:					
3 in.		per 1,000	34	1	0
4 in.		,,	36	10	0
5 in.		,,	43	15	0
6 in.		,,	49	19	0
7 in.		,,	61	8	0
8 in.		,,	71	19	0
9 in.		,,	79	3	0
10 in.		,,	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:					
12 in. × 3 in. × ½ in.		,,	42	15	0
12 in. × 4 in. × ½ in.		,,	73	15	0
10 in. × 5 in. × ½ in.		,,	73	15	0



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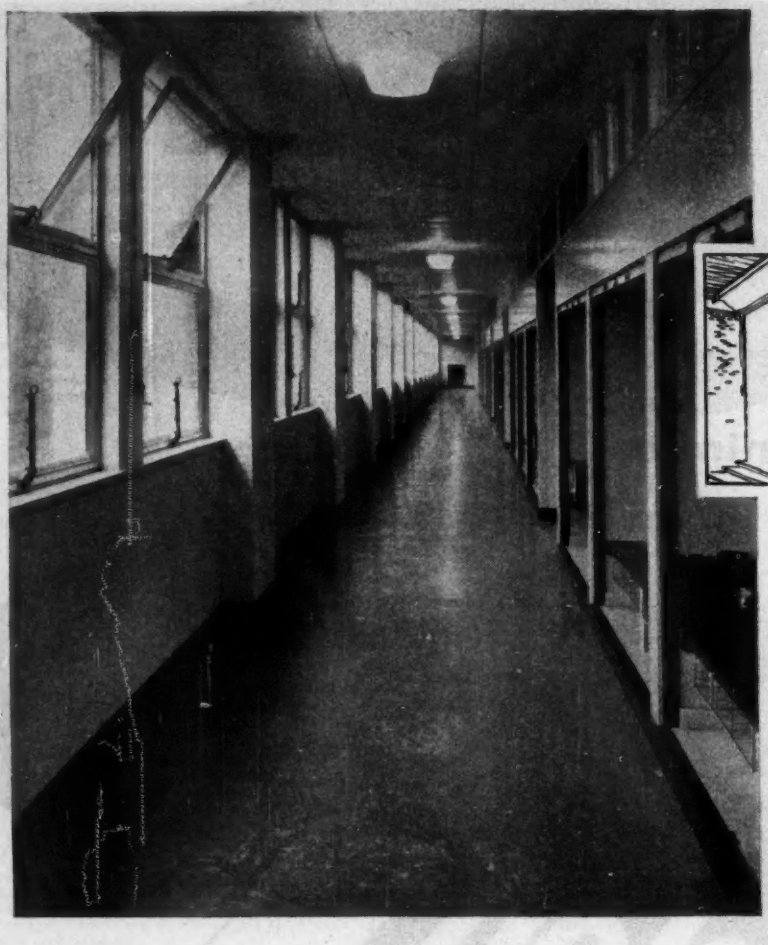
Fablon film—lightweight, tough and inexpensive—provides all-weather protection ; serves as waterproof membrane or moisture barrier ; acts as temporary glazing and screening ; improves the curing of concrete. These and other applications of Fablon, are all fully described in the illustrated Fablon booklet, which will be sent *free* on request.



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STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.

Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 50 pieces Under 2 tons	Under 50 pieces Under 2 tons
Best Quality ...	−22½%	−5%	List price
BSS Best Quality...	+10% −22½%	+10% −5%	+10% list price
Tested Quality ...	+37½% −22½%	+37½% −5%	+37½% list price
BSS Tested Quality	+47½% −22½%	+47½% −5%	+47½% list price

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	10	6
4 in. do. do.	,,	15	3	6
6 in. do. do.	,,	31	9	0
9 in. do. do.	,,	59	13	0

DAMP COURSE

Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	2
Asbestos base do. 7 lb. per yd. sup.	do. do. ,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup.	do. do. ,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

Bath Stone—				
Monks Park...	per ft. cube		9	7
St. Aldhelm Box Ground	,,		10	10
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	2
Beer Stone. Delivered London area	,,		9	0
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	2
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stooled cills	per ft. cube	4	1	9
12 in. × 6 in. do. do. do.	,,	2	18	3
12 in. × 3 in. Plain coping, twice throated	,,	2	5	3
12 in. × 3 in. Weathered and twice throated coping	,,	3	0	3
14 in. × 6 in. do. do. do.	,,	2	14	3
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	8	6
3 in. sawn two sides Slabs, random sizes	per ft. sup.		8	8
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	9	9
do. do. fair one edge for fair faced brickwork	,,	1	15	3
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		10	6
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	15	6
12 in. × 6 in. Plain Steps, rubbed top and front ...	,,	2	8	6
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		9	9
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	8	6

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.			
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district	62	0	3
Hand-made 10½ × 6½ tiles Berkshire district	15	15	0
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

24 × 12	150	19	7
22 × 12	122	14	2
22 × 11	110	16	4
20 × 12	103	19	1
20 × 10	99	11	6
18 × 10	69	2	6
18 × 9	60	11	9
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

Softwood—				
Joinery quality	Ex Wharf	per standard	£110 to £135	
Carcassing quality	do.	,,	£92 — £95	
1 in. Tongued and Grooved Flooring	do.	,,	£106	0 0
Hardwood—				
Mahogany—African S.E.	do.	per ft. cube	1 10	0
do. Honduras S.E. ...	do.	,,	3 5	0
Oak European S.E.... ...	do.	,,	2 5	0
do. Japanese S.E.	do.	,,	2 10	0
do. English Logs sawn ...	do.	,,	2 0	0
Teak 8 in. average S.E. ...	do.	,,	3 17	6
Walnut African Logs sawn ...	do.	,,	1 5	0

DOORS (in Lots 1-11)

		£	s.	d.
Delivered London area.				
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.			
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.	6	2
1½ in. do. (67 yds. to 1 ton)	,,	8	0
2 in. do. (52 yds. to 1 ton)	,,	9	9½
2½ in. do. (45 yds. to 1 ton)	,,	11	3
3 in. do. (39 yds. to 1 ton)	,,	12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.			
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	,,	2	0	0
5/16 in. do. do.	,,	2	17	6
3/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOISTS, ETC.

Basis Joists—				
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in. plain cut to lengths delivered London area	per ton	48	15	6
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in. }	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. } 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. } 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. } 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in. }	,,		10	0
Steel angles average price	,,	49	15	6
Steel tees average price	,,	50	15	6
Fabricated work delivered London—				
R.S. Joists cut and fitted	,,	67	15	0
Compound girders	,,	73	2	6
Stanchions	,,	78	0	0
Compound stanchions	,,	82	17	6
In Roof Work—Trusses and Purlins	,,	92	12	6
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¾ in. diam.	per ton extra	8	12	6
7/16 in. do.	,,		6	12	6
⅜ in. do.	,,		4	12	6
5/16 in. do.	,,		3	2	6
¼ in. do.	,,		1	10	0
⅛ in. and ⅛ in. diam.	,,			15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—

	Under 1 ton	Over 1 ton	W.I. Fittings		Malleable Fittings
Light	−40½%	−42%	Light	−26½%	Malleable List
Medium	−36½%	−38%	Heavy	−23%	−20%+40%
Heavy	−28½%	−30½%			

Black—

Light	−50%	−51½%	Light	−32½%	Malleable List
Medium	−46%	−47½%	Heavy	−28½%	−20%
Heavy	−38½%	−40%			

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/-
3½ in.	4/4½	3/11	1/-
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipes

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 22½% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts. :	cwt.	qt.	lb.	per yd.	Bends	Branches
4 in.	1	1	17	35/3	23/9	42/–
6 in.	2	0	1	51/7	63/9	101/–

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.

		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/–	3/3	3/10	5/2
Single Branches	"	4/8	5/6	6/7	9/2
Bends, square or obtuse	"	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj.	"	3/7	4/8	5/2	7/3
do. 6 in. do.	"	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	"	1/1	1/2	1/3	1/5
Angles	"	3/7	4/1	5/–	5/10
Nozzles	"	3/6	4/–	4/9	5/–
Union Clips	"	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

		3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/–	3/3	3/7	5/2
Stop ends	"	1/–	1/1	1/2	1/3	1/5
Angles	"	2/10	3/3	3/7	3/10	5/2
Nozzles	"	2/6	3/–	3/3	3/7	5/2
Union Clips	"	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality	52 17 6
Mild Steel Bars	47 8 0
Mild Steel Hoops	45 7 6

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge	62 7 6
24 gauge	64 17 6
26 gauge	67 17 6
Galvanised Corrugated Sheets, 6 ft. to 9 ft. :	
20 gauge	69 3 0
24 gauge	72 13 0
26 gauge	77 18 0
Galvanised Flat Sheets C.R. and C.A. :	
20 gauge	70 13 0
24 gauge	74 3 0
26 gauge	79 8 0

ALUMINIUM AND ALUM NIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)	per lb.	2 10½
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	"	2 8
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	"	2 9½
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	"	2 9½
Coiled strip for flashing, 99d7% purity, 22 SWG (12 in wide)	"	3 0
Corrugated sheet BS 1470 NS3 Utility Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1 12 0
Corrugated sheet BS 1470 NS3 Utility Industrial Profile 8 ft. × 31½ in. × 20 SWG	"	1 17 6
Corrugated sheet BS 1470 NS3 Utility Mansard Profile 8 ft. × 31½ in. × 20 SWG	"	1 11 2
Extruded section BS 1476 E1C simple moulding	per lb.	2 8½
Extruded section BS 1476 E1C 1 in. diam. round	"	2 6
Extruded section BS 1476 HE1WP simple angle	"	2 11½
Extruded section BS 1476 HE10WP 1 in. diam. round	"	2 10½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG	"	4 4½
Tubing BS 1471 HT10WP 1½ in. O/D × SWG	"	5 9

PLUMBERS BRASS WORK

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron	87/–	128/–	—	—	—	—
Toilet bib cocks for iron	109/–	158/5	—	—	—	—
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut boiler screws	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and Screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	64/10	81/–	129/6	221/6		
Lead S. trap do. do.	78/6	97/3	159/6	286/3		

Solder :			s. d.
Plumbers'	1 cwt. lots	312/–	14 lb. lots per lb. 3 5
Tinmen's	" "	394/–	" " " 4 0
Blow pipe	" "	397/–	" " " 4 2

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 29d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
½ in. × 19 gauge	15¼	Total per lb.	44¼	Approx. per ft.	12
¾ in. × 19 "	13¾	" "	42¾	" "	16¾
1 in. × 18 "	12¼	" "	41¼	" "	25½
1¼ in. × 18 "	11⅛	" "	40⅛	" "	31
1½ in. × 18 "	11⅛	" "	40⅛	" "	37
2 in. × 17 "	13¼	" "	42¼	" "	59¼

Small Quantity extras :—

10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	" 1d. "
2 cwts. to 1 cwt.	" 2d. "

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras "	278 15 0

Zinc

		£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7 3 9
" " 12 gauge (23 SWG), " " "	"	7 1 3
" " 14 gauge (21 SWG), " " "	"	7 0 0

Brass Tubes

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	1 11½

LEAD SHEET & PIPES

Basis selling price in minimum 1-ton delivery to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	110 0 0
" Water Pipe, in coils	"	112 5 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. dia.	"	113 15 0
" " " over 4 in. dia.	"	115 15 0
" Gas or Untinned Compo pipe	"	113 15 0
Extras over Basis for quantities under 1 ton :		
5 cwt. and under 1 ton	per cwt.	2 0
3 cwt. do. 5 cwt.	"	4 0
1 cwt. do. 3 cwt.	"	6 0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £64 0s. 0d. per ton weighed at buyer's works.

PLASTER

		£ s. d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8 4 6
do. White do. do. do.	"	8 14 0
Sirapite Coarse BSS 1191 Class C do.	"	8 15 9
do. Fine do. do. do.	"	9 3 3
do. Browning BSS 1191 Class B do.	"	8 15 9
do. Board Finish do. do.	"	8 15 9
Blue Lias Lime, in 6-ton loads	"	6 14 6
Hydrated Lime (Grey), in 6-ton loads	"	5 5 0
do. (White) do.	"	6 0 0
Lump Lime (Grey) do.	"	5 7 0
do. (White) do.	"	5 14 6
White Keen's or Parian Cement, in 1-ton loads	"	11 14 6
Pink Keen's or Parian Cment, in 1-ton loads	"	11 19 3
Granite Chips, in 6-ton loads	"	2 8 6
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 5
1,200 yds.	"	2 4
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"	3 0
1,200 yds.	"	2 11½
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"	2 8
1,200 yds.	"	2 7
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"	3 3
1,200 yds.	"	3 2½

General Contractors
for the erection of the
Liverpool Corn Exchange
and responsible for the construction of the Concrete Framework

Architects

Harold E. Davies & Son,
9 Chapel Walks,
South Chapel Street,
Liverpool, 1.

Consulting Engineers

Scott, Wilson,
Kirkpatrick & Pts.,
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London, S.W.1.

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(CONTRACTORS) LTD
ESTABLISHED 1820

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SAWMILL, KILNS & TIMBER SHEDS.

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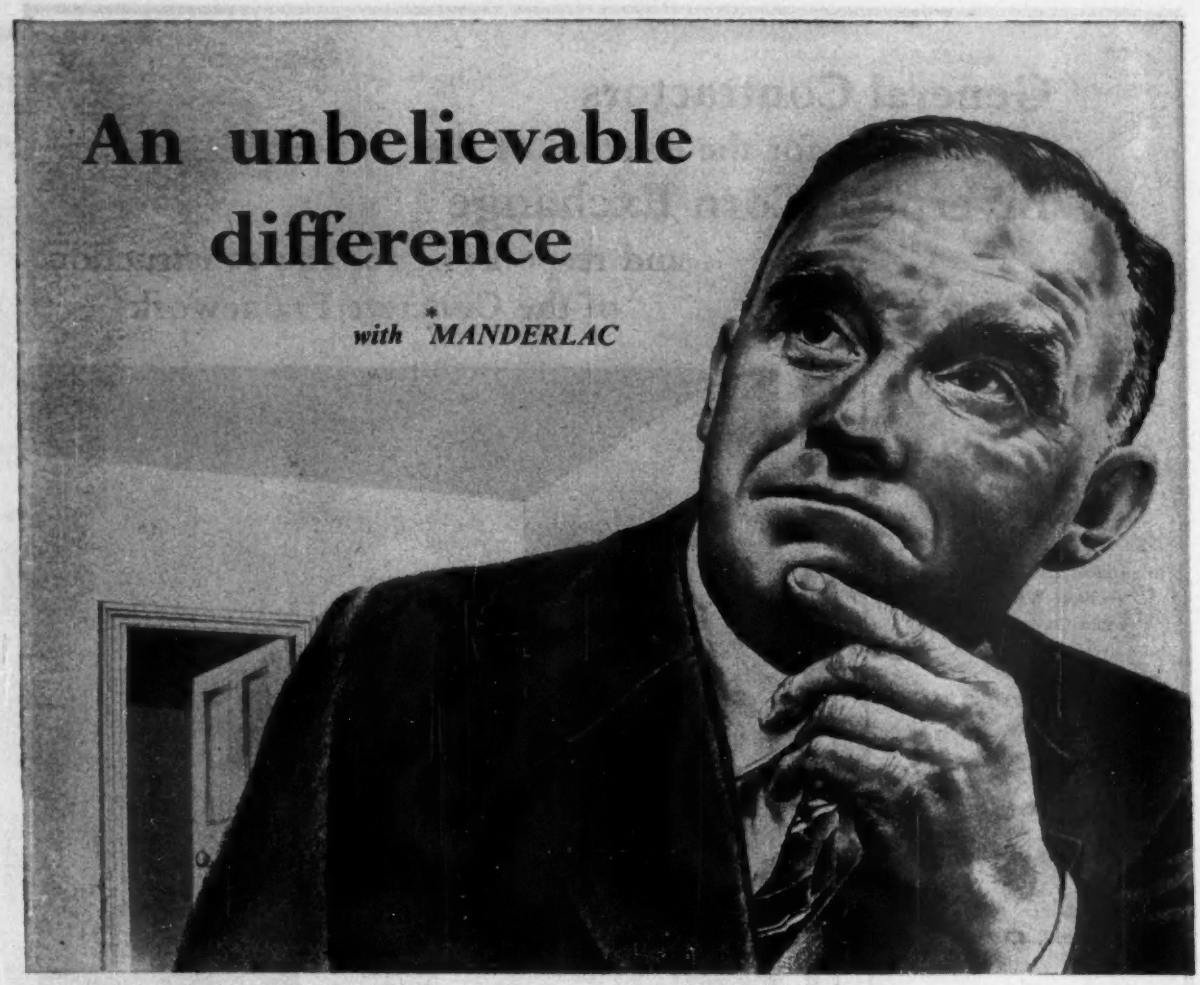

A Manders case history

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A Lancashire firm was appointed to paint the offices of a Local Council. A well-known paint was specified for the private office and Manderlac for the main office.

In the Painting Manager's own words, " the same conditions but an unbelievable difference. I knew Manderlac was good but I had no idea that it was so much better than other paints. I shall certainly use Manderlac whenever possible."

* *Ask for further information on this superb Enamel to be sent to you immediately.*

So easy to apply — looks wet when dry!

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Branches throughout the Country

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	5	0
Gloss Paint	per gal.	2	12	0
Super Snowcem cement paint (in 1 cwt. drums)	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	8	15	0
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	12	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		17	0
Boiled Linseed Oil (5 gal.) do.	,,		17	6
SUNDRIES				
Turpentine substitute (5 gal.) drums extra	,,		5	4½
do. do. (40 gal.) do.	,,		4	8½
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	0
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.				
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oak Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	6	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	18	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	17	0
Knotting (1 gal. bottles free)	,,	2	8	0
French and Brush Polish (do.)	,,	2	2	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality—Cut Sizes	per ft. sup.		9
24 oz. do. do. do. do.	,,		10¾
26 oz. do. do. do. do.	,,	1	1½
32 oz. do. do. do. do.	,,	1	5½
¼ in. Rolled Plate	,,	1	1½
3/16 in. Rolled and Rough Cast	,,	1	5
¼ in. do. do.	,,	1	5¾
½ in. Figured Rolled and Cathedral, Standard patterns—		s.	d.
White Group 1	per ft. sup.	1	1½
do. Group 2	,,	1	4½
do. Standard Tints	,,	1	10
do. Special Tints	,,	6	8
½ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	6
¼ in. Wired Cast	,,	1	9½
¼ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 5¾ × 5¾ × 3¾ in.	each	3	3
P.B.3 7¾ × 7¾ × 3¾ in.	,,	5	0
P.B.32 7¾ × 7¾ × 3¾ in.	,,	5	0
Radiused Corner Blocks to match up with—			
P.B.2	,,	6	0
P.B.3	,,	7	6
P.B.32	,,	7	6
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	3
,, ,, ,, 5 ft. sup.	,,	5	3
,, ,, ,, 45 ft. sup.	,,	6	3
,, ,, ,, 100 ft. sup.	,,	6	9
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways	,,	10	0
Not exceeding 180 ft. sup. or do.	,,	13	?

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.
The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. ,, ,,	2,000		8¾
26 oz. ,, ,,	2,000		10¾
32 oz. ,, ,,	2,000	1	1¾
¼ in. Rolled Plate	1,000		9¾
½ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		9¾
do. Group 2	1,000	1	0¾
½ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	1¾
3/16 in. Rolled Plate or Rough Cast	2,000	1	1
¼ in. do. do.	2,000	1	1¾
¼ in. Wired Cast, Hexagonal	2,000	1	4¾
¼ in. Georgian Wired Cast	2,000	1	4¾

The Builder

CURRENT RATES OF WAGES

AS FROM FEBRUARY 2, 1959. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/9	4/8½
Labourers	4/2½	4/2

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A1
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A1
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A1
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A1
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A1
Bridgnorth MB	A1
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A1
Caernarvonshire, Cnty. of	‡A1
Calder Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A1
Carmarthenshire, Cnty. of	‡A1
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A1
Deal	A1
Denbigh Town	A1
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD (part—Airmyn, Hook)	A
Gosport	A
Grantham MB	A
Gravesend	A
Grays Thurrock UD Area	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A1
Llangollen	A1
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A1
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A1
Monmouthshire	A1
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A1
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire (except Milford Haven)	A1
Penmaenmawr	A1
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A1
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A1
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull UD	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stourport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC Area	A
" North of to Billericay	A
Tilbury	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland (except Kendal)	A1
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A1
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A1
Wisbech	A1
Witham	A1
Withernsea UD	A1
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

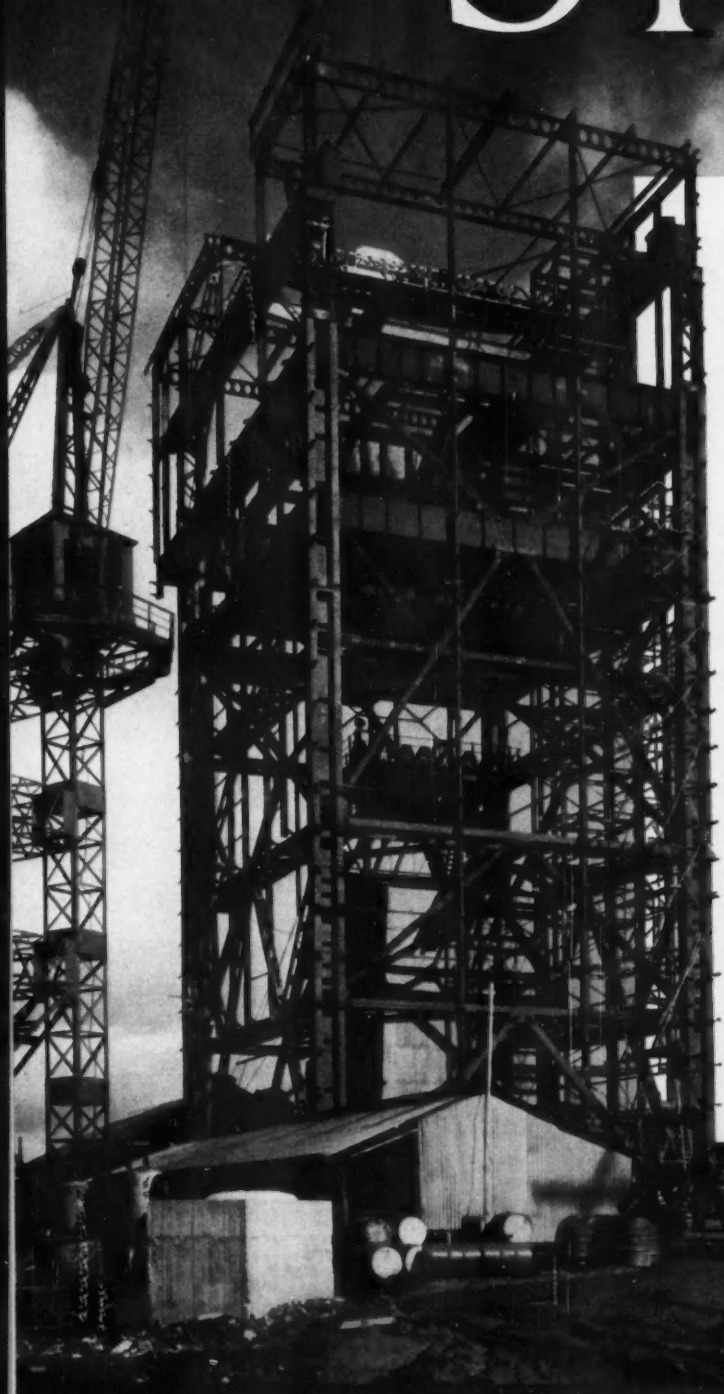
* For Birkenhead, Liverpool and London the rates are:— Craftsmen 4s. 10½d. ; Labourers. 4s. 4d. In the case of London the rate beyond the 12-mile radius is: Craftsmen 4s. 10d. ; Labourers, 4s. 3½d. † Plus 2d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d per day ; when employed on other building industry work, 4d. per day

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 3s 10½d. per hour Women engaged on work other than craft processes, 3s. 6½d. per hour.

For Building Trade Wages in Scotland see page 574.

STEEL



A COLLIERY WINDER TOWER

This winder tower is about 150 ft. high with columns at 60 ft. by 52 ft. centres.

Welded girders up to 15 tons in weight are used in the winder floor and motor generator floor. High-strength bolting was used for site erection, thus saving time.

The scotch derrick on the left is part of the contractor's erection tackle.

BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION

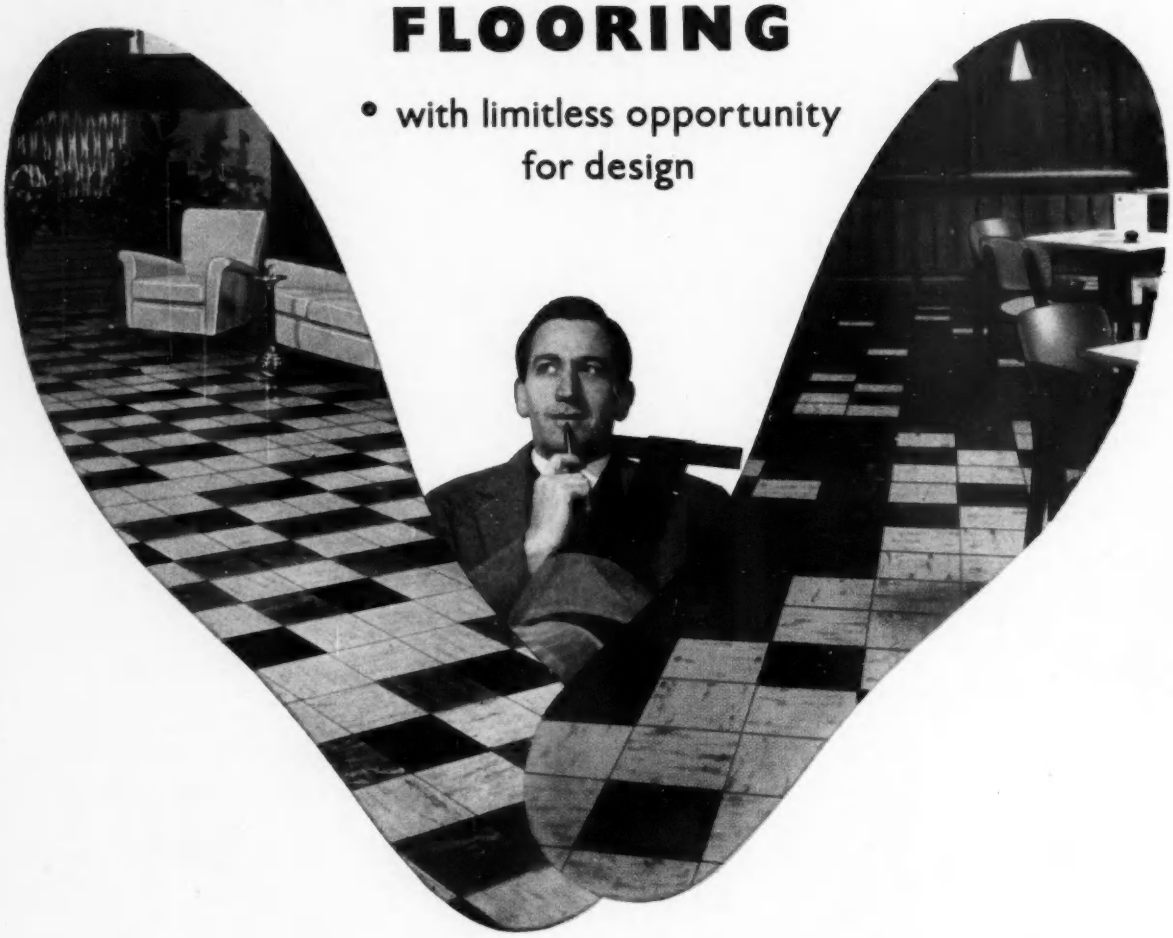
Artillery House, Artillery Row
Westminster
London, S.W.1, England

B·C·S·A

STEEL
STRENGTH
SECURITY

modern
FLOORING

• with limitless opportunity for design



AMONG those concerned with flooring problems many have come to the conclusion that "Semastic" or "Vinylex" tiles are the most practical and economical solution to covering sub-floors in industrial or commercial premises, in public buildings, and often in private homes, whether over new floors or to make old floors like new.

Tiles by Semtex provide ample opportunity for attractive designs, as the examples here show. They are quick to lay and immediately ready for use. This apart from other "user" considerations, such as the economy of longer wear; easy cleaning and maintenance; quiet, comfortable walking surfaces.

SEMTEX, with over 25 branches, provides a complete laying service throughout the United Kingdom, including technical and design advice. There are also independent approved laying facilities in the majority of the principal towns. For full information write or telephone to the address below.

Semastic *Decorative and* **Vinylex** *Floor Tiles are among the range produced by*

Semtex

• THE COMPREHENSIVE FLOORING SERVICE

SEMTEX LTD. *A Dunlop Company*, SEMTEX HOUSE, WELSH HARP, LONDON, NW9. *Tel: HENdon 6543*

BOTH PRACTICAL AND DECORATIVE . . .

The examples above show that Semtex flooring has been accepted as the most practical and decorative solution to flooring problems, (left): Semastic Decorative Tiles at Lederle Laboratories Division, Cyanamid of Great Britain Ltd., (right): Vinylex Tiles in a reception hall in Germany

CFH/8SE/55

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 47 of this issue. The form can be used for more than one inquiry.

AIR CONDITIONING

DUAL DUCT AIR CONDITIONING: a high velocity dual duct single fan air conditioning system is a good all purpose type of plant. A central supply of both warm and cool air is conducted through two separate ducts to a mixing unit for each room. The total volume of air supplied to each room remains constant but the proportion of warm to cool air is adjusted by a valve controlled from a room thermostat. The use of high velocity air systems can effect economies in builders' costs, produce a more compact air distribution system and give improved comfort conditions with individual room control without noise obtrusion. However, the initial cost of the system is high. Early discussions between architect and air conditioning engineer are esential to ensure that the fullest advantage is obtained and that it is applied to suitable buildings where its advantages will outweigh the higher cost. (Illustration.)

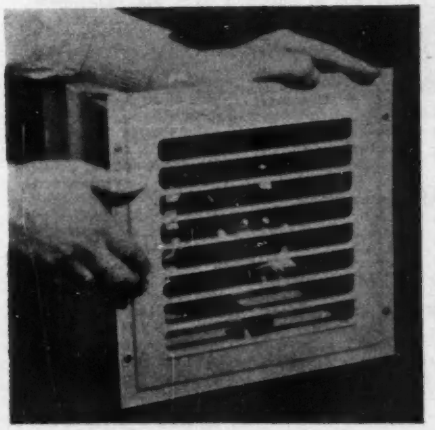
Brightside Heating and Engineering Co., Ltd., G.P.O. Box 118, Sheffield 1.

CONTRACTOR'S PLANT

'TRAKMAT': consists of chestnut pales sandwiched between two layers of high tensile steel mesh and is a low-cost development of the material used to construct advanced airstrips in wartime. It will support loads up to 10 tons when laid flat on very soft ground or sand, and will support a three-ton lorry across a narrow culvert. It may also be used for low-cost hardstandings which can be removed if necessary. Available in two sizes—a 6 ft. 9 in. x 2 ft. 9 in. and a 12 ft. x 7 ft. section. Other size panels can be supplied. Once in position the units are joined by S-shaped steel clips. (Illustration.)

Bracketing, Centering & Lathing, Ltd., Central-avenue, West Molesey, Surrey.

The 'Mechavent 75' extractor fan for domestic ventilation



DOORS

ROLLER SHUTTER AND SLIDE DOORS: based on a new interlocking slat which combines strength and rigidity with lightness. Normally the ends of the slats are protected by castings, but in order to obtain lightness and smoothness of action the new pressed-end locks are shaped to protect the edge of the curtain and are precisely aligned to avoid vibration. Made to standard sizes of 7 ft. and 6 ft. 8 in. and 8 ft. and 6 ft. 8 in., but can be produced in sizes up to 20 ft. wide × 15 ft. high. The slats are either galvanised steel or high-strength aluminium alloy. The bottom bar of the curtain is made of aluminium alloy extrusion and gives easy access to movement of the curtain.

Golmet Doors Ltd., Trecenydd, Caerphilly, Glamorgan.

DRAINAGE

PITCH FIBRE STOP END CAPS: for use with pitch fibre pipe drainage system will fit 4-in. and 6-in. internal diameter pipes and are designed for stopping off rodding branches and uncompleted runs; also as temporary stops during the testing of drainage systems. The caps, which have an integral precision-machined female taper, are driven onto the tapered spigots of branch pipes in the same way as a coupling, and form a completely water-tight joint.

The Key Engineering Co., Ltd., Larkfield, Maidstone, Kent.

HEATING

THE 'VECTRON' SPACE HEATER: a new free standing model of a semi-venturi type which blows the warm air through the heater with tremendous force without a fan. Cold air is drawn through the base of the heater and is accelerated internally. The fast moving air strikes the ceiling, circulates, cools, descends, and is recirculated through the heater. It is estimated that in an average room the air would circulate through the heater approximately two to three times per hour. Made from aluminium and stainless steel with a base of cast iron. If knocked over, a gravity switch cuts off the current. The electro-chemical dye finishing process gives a wide range of colours. The finish is resistant to scratches and corrosion. Easily transportable and completely silent in operation. It may be run at 1 or 2kW.

Thermain Domestic Appliances, Ltd., Tame-road, Witton, Birmingham, 6.

VENTILATION

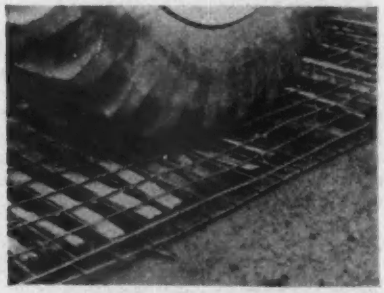
'MECHAVENT 75' EXTRACTOR FAN: intended for installation in domestic kitchens, this one piece unit is complete with external automatic shutters, easily cleaned internal grille and rustproof steel wallbox. The unit, mounted in the wall without projections, uses very little power and will change the air in the average kitchen more than 14 times per hour. May be connected to AC mains or power unit, requires no maintenance and is guaranteed for one year.

Greenwood's and Airvac Ventilating Co., Ltd., Beacon House, Kingsway, WC2.

UNCLASSIFIED

AIR ENTRAINMENT METER: an instrument which will measure the air content in concrete as a percentage, it consists of a rigid container which is filled with the sample of concrete. A conical shaped cover is clamped to the top of the container. In the centre of the cover is a vertical metal column housing a glass tube. Water is introduced into the instrument through the top of the column and the water level in the glass tube observed through a slot in the column and adjusted until it coincides with the zero mark on the scale engraved alongside the slot. The top of the column is then sealed with a screwed plug and through a valve fitted to the side of the pressure gauge housing, air is pumped into the instrument until the gauge registers a predetermined pressure. The air content is then indicated by the water level in the glass tube.

Caplin Engineering Co., Ltd., Beconsfield-road, NW10.



above: *A close-up of a length of 'Trakmat' in use*

below: *A view of part of a dual duct high velocity air condition installation with the false ceiling removed*

NEWS IN BRIEF

Building Board 'Brains Trust'

MR. ERIC BIRD, MBE, ARIBA, will act as chairman of a panel composed of Messrs. J. Gwyn Davies, E. P. Lawrence, Peter Matthews, ARIBA, and A. W. Vatcher, who will constitute a 'Brains Trust' on Fibre Building Board organised by Fidor at the Building Centre, Store-street, WC1, on Tuesday next, March 24, at 5.45 p.m.

Travelling Allowances, Birmingham

The NJC for the Building Industry on January 14 decided to increase as from March 16 from 2d. to 4d. per day the special daily allowance payable under the Birmingham Metropolitan Award. Ratification has since been declared by the adherent bodies.

Building Workers' Pay Increase

The Builders' Committee of the Ancillary Staffs Council have agreed that the rates of pay of building labourers, craftsmen, chargehands and foremen at hospitals be increased by 1d. an hour from February 2, last, and an increase in the plus rates paid to chargehands and foremen of 1d. an hour with effect from the first full pay period following December 9, last.

A Safety Guide

Seven hundred civil engineering contractors have received a Safety Guide setting out recommendations on those safety precautions shown to be the most important by a factual analysis of over 3,000 civil engineering accidents. The guide, which has been issued by the Federation of Civil Engineering Contractors from Romney House, SW1, is in a handy pocket size and costs 1s.

Public Health Engineers' Address

Owing to demolition of the present building at 118 Victoria-street, the offices of the Institution of Public Health Engineers will be vacated on March 23 next. Until new premises become available in mid-summer, the temporary address will be: c/o Portman Building Society, 39 Portman-square, London, W1 ('Phone: Welbeck 0981, Ext. 30).

Brixton Old Boys' Association

The AGM and supper of the Brixton School of Building Old Boys' Association is to take place at the Windsor Castle Restaurant, Victoria, SW1 on Friday, April 3. The cost of the supper is 16s. 6d. and application for membership and for supper tickets should be made as soon as possible to the Hon. Secretary, L. Wilder, School of Building, Ferndale-road, Brixton, SW4. The supper will be at 6 p.m. for 6.30 p.m. followed by the AGM and a general get-together. All past students will be welcomed into the Association, and it is hoped that prospective members will apply straight away and attend the supper and AGM.

Councils and Apprenticeship

While expressing their sympathy with the aims of the West Sussex Joint Apprenticeship Committee, Worthing Rural Council has refused the latter's request that they should not accept tenders worth more than £1,000 from firms not employing the correct number of apprentices. The Council had been advised by the Rural District Council's Association that it was not a matter with which local authorities should concern themselves as it was related to internal arrangements of the building industry.

Thermal Insulation and Fires

The introduction of the Thermal Insulation (Industrial Buildings) Act, 1957, has brought the subject of thermal insulation and the fire hazards involved into prominence, and the Fire Protection Association has accordingly issued a reprint of *Fire Hazards Associated with the Thermal Insulation of Buildings*, Technical Information Sheet No. 4002, which describes the implications of numerous tests carried out in this field by the Joint Fire Research Organization. Special attention is paid to the restrictions placed by the Act on the use of certain insulating materials which enhance the outbreak and spread of fire. Copies and any further details from the Association at 31/45 Gresham-street, London, EC2.

USA Award to British Builders

An award of merit in America's 1958 National Home Week has been received by the United States subsidiary of Wates Ltd., the British building and civil engineering contractors. The award was received for a six-roomed house with three bedrooms, which was designed by a New York architect, Herman H. York. The house has an overall area of 1,845 square feet. It is located at The Ridge, Woodbury, New York. Wates & Company were the only company in the New York area to receive an award in the competition, which was entered by more than 200 builders. The firm also is the only British company currently operating a house building programme in the United States.

Attracting Light Industries

At the annual meeting of Scarborough Building Trades Employers' Association, held in the Salisbury Hotel on February 4, it was agreed that every effort must be made locally to attract light industries to absorb surplus labour in the Scarborough area. It was also reported that despite the continued shortage of skilled craftsmen in the industry over 10 per cent of all boys entering employment were going into the building industry. Any increases in the number of apprentices would have to be coupled with better craft training facilities if current high standards were to be maintained and improved. Mr. T. Cockerill was re-elected president.

Further Education Course

A short Residential Course for Works and Plant Engineers organised by the Regional Council for Further Education for the South West in conjunction with the National Industrial Fuel Efficiency Service and the Bristol Education Committee will be held at Wills Hall, University of Bristol on April 6, the course terminating on April 10. The fee for the course will be £12 12s. Applications and further inquiries from Mr. S. Brook at the Regional Council's headquarters in 12, Lower Castle-street, Bristol, 1. Further particulars, and application forms, are obtainable from Dr. H. J. Willavoys, College of Technology, Ashley Down, Bristol, 7.

TRADE NEWS

Safety for Hire

A SCHEME whereby their stretcher/ladder first aid and rescue equipment may be hired has been introduced by J. Nesbit-Evans & Co., Ltd., St. Oswald's-road, Gloucester. It is expected to appeal to voluntary bodies with limited capital and the hiring may last for any length of time. If required, 75 per cent of the fees may be counted towards the purchase price.

'The Municipal Architect'

This is the title of a new filmstrip by Educational Productions Ltd., East Ardsley, Wakefield, Yorkshire. It consists of 25 photographs mainly following the progress of a school through all the stages from sketch design to finished building.

Change of Direction

Specifile Ltd., 131 High-street, Croydon, announce that Mr. John Brunton, ARIBA, a partner of the company's consulting architects, Brunton, Baden Hellard & Boobyer, has taken over the direction of their design department for the time being, and Mr. Maurice Frankling, formerly Design Director, has retired from the board.

COMPANY NEWS

J. Hewitt & Son (Fenton) Ltd. have recommended the payment of a ordinary dividend of 15 per cent (less tax) on the ordinary shares of the company for the year ended December 31, 1958.

Permanite Limited recommend the payment of a final dividend of 10½ per cent (less tax) on the 1,900,800 ordinary shares of 5s. each, making, with the interim dividend of 7 per cent already paid, a total for the year of 17½ per cent.

PERSONAL COLUMN

Following the recent announcement of the appointment of MR. ROBERT JARVIE as managing director of United Dominions Trust (Commercial) Ltd., further developments can now be reported. In future all the instalment credit business of the UDT Group in England, Scotland and Wales will be handled by the Commercial company, whose board has been reconstituted. In addition to MR. J. GIBSON JARVIE as chairman and MR. ROBERT JARVIE as managing director, the board now includes three directors who are also on the board of the parent company, namely, MR. D. CARMICHAEL, MR. P. M. GRAY and SIR BRIAN MOUNTAIN, Bt., and three executive directors, MR. A. H. B. BANGHAM, MR. L. ROSEMONT and MR. W. W. A. WALLACE.

MR. W. K. MANSFIELD has been appointed by the Croft Granite, Brick and Concrete Co., Ltd., of Croft, near Leicester, as their technical representative in the Northern Counties. Mr. Mansfield will be operating from Main-st., Cayton, near Scarborough.

MR. J. G. MARSDEN, late of British Paints Ltd. of Newcastle-on-Tyne, has joined Anti-Dust Services Ltd. as general sales manager in charge of U.K. Sales.

MR. R. E. CRYOR, President of North American Asbestos Corporation of Chicago, American subsidiary of The Cape Asbestos Co., Ltd., has been elected President of Cape Asbestos (Canada) Ltd. of Toronto, and Caposite Insulations Ltd. of Sarnia, Canadian subsidiaries of Cape Asbestos. This election follows the death of MR. L. W. DENNIS, first President of Cape Asbestos (Canada), last summer.

C.A.S. (Industrial Developments) Ltd. announce the appointment of MR. A. H. HORN and MR. B. D. CASTLE to the Board. Messrs. Horn and Castle have also become directors of C.A.S. (Contractors) Ltd., and C.A.S. (Domestic Developments) Ltd. MR. D. H. HOLMES, general manager of C.A.S. (Contractors) Ltd., has also been elected to the Board of that company. MR. C. A. SAMUELS remains chairman and managing director of all three companies.

Architects: Harrison & Cox, F./A.R.I.B.A. *Contractors:* Hinkins & Frewin, Oxford

Over 1,330 sq. yds. of Marley floor tiles

were used throughout the new

Blessed Edmund Campion School at Iffley, Oxford

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"I'm available for outright purchase or on excellent rental terms—so write or phone today for full details."

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(Incorporating W. C. Davey & Co.,) Queens House, 180-182, Tottenham Court Road, London, W.1 Telephone: MUSeum 4414, 4415 and 6388

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All over the country people are discovering how easy it is to lay their own drives and paths with Durive.

Durive is so much quicker, easier and cleaner to use than old-fashioned methods. No mixing, heating or special equipment is required—you just tip it out of the bag, rake it level and roll it firm. The job is done! You can walk on it, drive a car on it as soon as it is laid!

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Durive is the ideal material for all those building and repair jobs that require individual quantities of macadam in a convenient and easily usable form. Durive can be stored under cover for several months.

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- **Outdates all other methods**
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See Durive at the Ideal Home Exhibition, Stand No 75

OVERSEAS BUILDING

From Our Own Correspondents

BRITISH COLUMBIA: John Laing and Son (Canada) Limited have been awarded the contract for the construction of the new Queensborough Bridge across the north arm of the Fraser River. The employing authority is the New Westminster City Council. The main span over the river is 300 ft. long with two side spans of 136 ft. each.

CANADA.—The report of the consulting engineers, Sir Alexander Gibb and Partners, for the new Lakehead harbour terminal, has been received and accepted by the Canadian Works Department at Ottawa. The contract for this work will be let in the next few months. It is estimated that the total cost of the development will be about $6,600,000 plus $900,000 for a railway overpass.... A contract worth $1,488,353 for 8.4 miles of Highway 401, Ontario, has been let to Peel Construction Company of Brampton.... A 79-suite block of flats is planned for the south-east corner of Jameson-avenue and King-street West, Toronto. Ownerbuilder is Belmont Construction Co., Ltd.... Wellington Square, Ltd., a subsidiary of Webb and Knapp (Canada) Ltd., are to build a $10m. shopping centre in London, Ontario. The project will include accommodation for about 50 stores and two parking garages, and is scheduled for completion in the spring of 1960.... An $18m. international highway has been proposed to link the main San Juan Islands with the mainland state of Washington and Vancouver Island, British Columbia. ... Springfield, Nova Scotia, will be the site of the new penal institution to be constructed in the Maritime Provinces.... The Dominion Steel & Coal Corporation, in conjunction with Sogemines Ltd., Belgium, is to start construction of a new steel mill in the Province of Quebec, this summer..... The Canadian Department of Public Works are to construct two new parks at the Terra Nova National Park, Newfoundland, and the Revelstroke Parks in British Columbia. ... The Chenneil Construction Co. Ltd. has been awarded a $328,275 contract to surface 21.5 miles of highway in Manitoba.... The Canadian Construction Association estimate that $7 billion will be spent on construction this year.... The Canadian Indian Affairs Department has agreed to construct dams and dikes in the Summerberry Marsh development covering about 1m. acres. It is anticipated that water control structures and excavation of channels will be finished within the three-year period of agreement.... The final cost of the new harbour development at St. John's, Newfoundland, will be in the neighbourhood of $12m.... A modern $500,000 residential-type Home for Girls is to be constructed on a 15-acre site in West St. Paul, Manitoba, a suburb of Winnipeg. Architects are Smith, Carter, Searle and Associates, and the plans call for four 15-person cottages and a main administration building. Tenders will be called for shortly for a new barrack block; medical equipment depot; 500-men mess and a junior ranks' club, at Camp Borden, Ontario.... A cantilever hangar; anti-corrosion hangar, a pump house and reservoir are Edward Island.... R. G. Johnson, President to be constructed at Summerside, Prince of Defence Construction, Limited, Ottawa, estimates that $180m. will be spent in 1959 on construction work for the Department of National Defence.

CHINESE REPUBLIC.—The construction of 72 stone and earth causeways is to be undertaken in the Pearl River Delta to improve agricultural production in the Kwangtung region.... The Cellulose Development Corporation, Hatch End, Middlesex, has signed a contract with the China National Technical Import Corporation for the construction of a £250,000 pulp mill near Canton.

• *HONG KONG.*—The PWD have called for tenders for the construction of a gravity-type earth dam and diversion tunnel in connection with the $120m. reservoir to be built at Shek Pik on Lantao island. The dam will be 2,300 ft. long and 176 ft. high, faced with concrete slabs. Work is expected to start this summer and will take about four years to complete. Engineers are Messrs. Binnie, Deacon and Gourlay, of London.... A polyclinic, designed by Leigh and Orange (J. Howarth, ARIBA), is to be built at Sai Ying Pun, one of Hong Kong islands most densely populated areas. The estimated cost is about $4,500,000, the whole of which will be met by a grant from the Hong Kong Jockey Club. The building will be eight storeys high and, in addition to a large out-patients' general clinic, it will contain three floors of specialised accommodation for the University of Hong Kong, a dental clinic, social hygiene and dermatology rooms, X-ray unit and chest clinic, and a pathology laboratory. ... The China Products Company's premises at 24 Des Voeux-road Central is to be rebuilt at, a cost of $3,722,000. The building designed by T. Lam, authorised architect, and owned by the Liu Cheong Hing Estate Co., will be 20 storeys high and contain offices on all the upper floors.

MALAYA.—The airport at Kuala Lumpur is to be improved at a cost of $15m. The existing 6,200 ft. runway will be extended to 9,000 ft. and widened for its full length. Night flying facilities will be installed and the present terminal building will be extended.

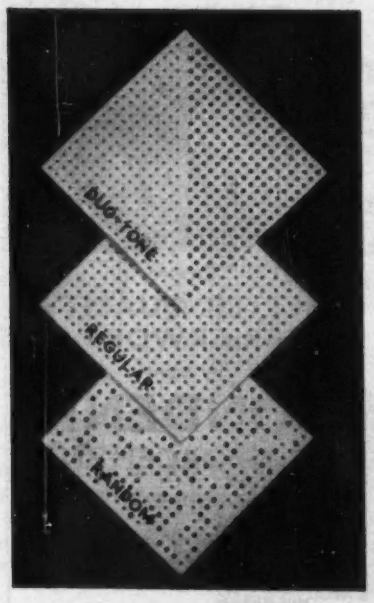
SOUTHERN RHODESIA. — A contract for a housing scheme worth £500,000 at Que Que, has been signed between the municipality and Roberts Construction Co. (S.R.), Ltd.... The £400,000 contract for extending the Ambassador Hotel, Salisbury, has been won by John Laing and Son (Rhodesia). Part of the hotel is to be used by the Southern Rhodesia Government as offices. The extensions will carry the hotel to 19 floors, rising to 230 ft.... Building plans approved by the Salisbury City Council in 1958 show a drop of about 40 per cent on previous peak years. There are, however, projects for considerable building activity in the future. These include the eventual completion of a £2m. general hospital; £500,000 worth of buildings for two building societies; the new £60,000 Nestlé factory; another tobacco floor costing £160,000; a central commercial building valued at £80,000; a store for a South African multiple concern costing £180,000; and £200,000 extensions to the Anglican Cathedral. The Rhodesian breweries are to build a £1,500,000 brewery.... The Welkom (OFS) building industry has a programme of nearly £10m. to be completed in the next few years. Mining companies are to spend £2,500,000 on housing in the next two years. In addition work on the Provincial Hospital, to cost £600,000, is to be begun.... The government have passed plans for a £450,000 Magistrate's Court and an automatic telephone exchange building to cost £320,000.

TRINIDAD.—The Minister of Housing and Local Government has announced plans to construct a further number of houses for rental at a cost of about $1m. reports Barclays Bank DCO.

Colonial Development Schemes

GRANTS AND LOANS totalling over £1,100,000 were made in January under the Colonial Development and Welfare Acts. Public Works and Health schemes accounted for nearly two-thirds of this sum. Among the grants for these schemes was £218,190 to Uganda for improvements to major roads; £196,700 to Sierra Leone for the construction of the Freetown to Bo road; £71,165 to St. Lucia for feeder roads; £36,818 to Basutoland for the erection of a bridge over the Orangi River at Seaka; £7,500 to Somaliland for the widening of the Sheikh Pass; £79,963 to British Guiana for the provision of cottage hospitals, health centres and mortuaries; £62,230 to the University College of the West Indies for various construction works; and £26,000 to Sierra Leone for improvement and extension to the Connaught Hospital.

Other grants included £21,900 to St. Lucia for the improvement and reconstruction of existing schools, a supplementary grant of £10,831 to Grenada for hurricane rehabilitation and £2,650 to Cyprus for aerial geophysical surveys.



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SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s. 2½d.

For apprentices, the rates are:

Year	Percentage of Craftsman's rate	For week of 44 hours s. d.
1st	25	52 3
2nd	33⅓	69 8
3rd	50	104 6
4th	66⅔	139 4
5th	75	156 9

For female labour, the rates are:

	s. d.
Operatives on craft operations (at end of probationary period)	4 2½
Operatives on labouring operations (at end of probationary period)	3 8½

The SCOTTISH BUILDER

Clean Air in Scotland

SCOTTISH Local Authorities have been very slow in making use of their powers under the Clean Air Act,' said Lord Forbes, Minister of State for Scotland in Edinburgh on March 6. He added that two authorities had established smoke control areas, two others had smoke control areas under consideration, and two more were considering putting forward proposals.

Glasgow Development Application

FOLLOWING the application by the House of Fraser to develop the St. Enoch-square/Argyle-street area of Glasgow, the Corporation have received a similar application from the City Property Investment Trust Corporation, Glasgow. This is for permission to build shops, warehouses and offices on the site; an area of about 10,000 sq. ft. The planning committee are to consider both applications.

NEW BUILDINGS

Fife.—Proposed modernisation and extensions to Ballingray sec. sch. Contractors complying with day release regulations. All trades. Applications to County Clerk, Cupar.

Glenrothes.—Glenrothes Development Corp. received permission to erect five advance factories designed primarily to meet the requirements of small firms.

Lossiemouth.—Moray and Nairn Education Committee approved erection of primary school. Est. cost £95,000. Also secondary school to have new hall and gymnasium at a cost of £20,000.

Paisley.—TC approved in principle three 20-storey blocks of flats at Glen-st.

Paisley.—TC propose to widen Glasgow-rd.

Perth and Kinross CC.—Three approved schemes at a total cost of £522,600. The Southern School, Perth, to be adapted as a temporary technical education centre (£25,000). New wing to be added to County Offices at York-pl., Perth (£203,100). Third project—permanent further education centre at Perth Old Academy (£294,500).

Renfrew.—Three-storey £20,000 hotel to be built on site near Glasgow-rd. by Mr. E. Gardiner.

The Builder FUTURE CONSTRUCTION

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those with an asterisk are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. A dagger (†) against the entry indicates that applications must be received by this date.

MARCH 23

†Stourport-on-Severn UDC.—104 dwellings with roads and services at Walshes Farm housing estate. C.

MARCH 25

***†Durham CC.**—(a) Construction of lift well, and (b) provision and fixing electric goods lift at Bowes Museum, Barnard Castle. County A.

MARCH 28

***†Essex CC.**—(a) Chigwell Debden branch library, and (b) fire station at Canvey Island. County A.

MARCH 31

Durham CC.—One standard steel-framed building at central repair depot. County E&S.

***†Folkestone BC.**—Pair of houses at Walton-rd. Boro' E. Dep. £2 2s.

***†Northampton Standing Joint Com.**—Four police houses at Rushden. County A.

***†South Western Regional Hospital Bd.**—Fixed price tenders for ward unit at Langdon extension, Dawlish, Devon. Secretary, 27 Tyndalls Park-rd., Bristol 8.

APRIL 1

***†Southend-on-Sea CBC.**—(a) Alterations and additions to Glenhurst Cottage to form new occupation centre at Southchurch-rd., and (b) old people's home at Whittingham-ave. Boro' A. Dep. £2 2s. each contract.

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GB 15

***†Wandsworth MBC.**—Nine flats and three houses at Polworth-rd., Streatham. Boro' E&A.

APRIL 6

***†Bristol City C.**—Fixed price tenders for recreation and parade building at Redland police station. City A. Dep. £2 2s.

***Hatfield RDC.**—(a) 33 dwellings at Dellsomela., North Mymms, and (b) 11 bungalows on four sites at Hatfield. E&S. Dep. (a) £10 10s. (b) £5 5s.

***Rugby BC.**—34 'Woolaway' garages, with site works, etc., at Perkins Grove, Abbotts Farm estate. Boro' S. Dep. £2 2s.

***†Southampton CBC.**—New swimming baths at Western Esplanade. Boro' A. Tenders by June 1.

***Uttoxeter UDC.**—Three aged persons' bungalow and incidental works at junction of Stafford-rd. and Westlands-rd. S. Dep. £2.

APRIL 7

Belfast City C.—35 flats and maisonettes at Eglinton-st. Housing A., 97, Townsend-st., Belfast, N1. Dep. £5.

***†West Sussex CC.**—Three-storey extension to North East wing of County Hall, Chichester, and erection of canteen kitchen and dining room. County A.

APRIL 8

***Salford City C.**—Firm price tenders for caretaker's house at Pendleton high sch. for girls, Eccles Old-rd., Salford, 6. City E&S. Dep. £2 2s.

***Southend-on-Sea CBC.**—Foundations to prefabricated classrooms at Dowsett high sch. for girls, Boston-ave. Boro' A.

***†Southend-on-Sea CBC.**—Bathroom and w.c. extensions and provision of hot water installations, etc., to 40 houses at Ruskin-ave. Boro' A. Dep. £2.

APRIL 9

Cavan, RI, CC.—Alterations and extensions and erection of staff living accommodation at Lisdarn hospital, Cavan. County Secretary. Dep. £20.

***Salford City C.**—Firm price tenders for public conveniences at Victoria bus station, Chapel-st., Salford, 3. City E&S. Dep. £2 2s.

APRIL 10

***Lymm UDC.**—78 houses and flats at Whitbarrow-rd. J. Mather & W. H. McAlister (A), 84 Bridge-st., Warrington. Dep. £5 5s.

APRIL 13

Grimsby CBC.—Fixed price tenders for new weights and measures offices at King Edward-st.:—(a) General building work, drainage, road works, etc.; (b) oil-fired heating installation; (c) electrical installation. Boro' E&A. Dep. £2 each contract.

***Oldham CBC.**—Fixed price tenders for 24 flats at Alt estate. QS: Cameron & Middleton, F/ARICS, 21 Queen-st., Oldham. Dep. £2 2s.

***Sittingbourne and Milton UDC.**—Fixed price tenders for (a) 48 houses, and (b) 40 houses at Canterbury-rd. housing estate. E&S. Dep. £3 3s.

***Wallasey CBC.**—Alterations and extensions, including new three-storey science block, with paths, roads, drainage, etc., at Wallasey Technical College. Boro' A.

***Wallasey CBC.**—(1) Changing room accommodation at Lyncroft-rd., playing fields. (2) Nine flats at New-st. Boro' A.

***Wallasey CBC.**—Changing room accommodation, etc., at Wallasey grammar sch. playing fields, Twickenham-drive, Leasowe. Boro' A.

APRIL 14

***Basingstoke BC.**—58 dwellings comprising two-storey flats, houses and bungalows, and 27 garages at St. Peter's-rd. Boro' A. Dep. £2 2s.

APRIL 15

***East Riding of Yorkshire CC.**—Four-bay fire station, drill tower and station officer's house at Bridlington. County A. Dep. £2.

***Rugby BC.**—31 houses at Abbotts Farm estate. Boro' S. Dep. £2 2s.

APRIL 17

***Chadderton UDC.**—Extensions to South Chadderton library. E&S. Dep. £2 2s.

APRIL 20

***Stepney MBC.**—75 dwellings, Martineau-st., housing scheme. Howes & Jackman (F), architects, 1 Verulam-bldgs., Grays Inn, WC1. Dep. £10 10s.

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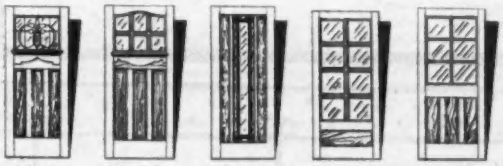

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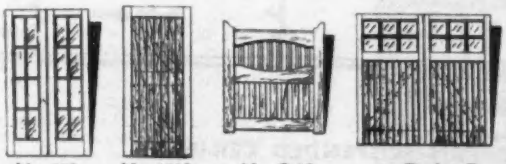

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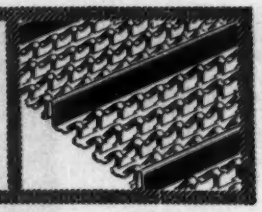

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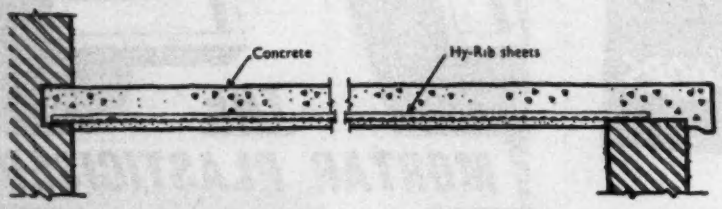

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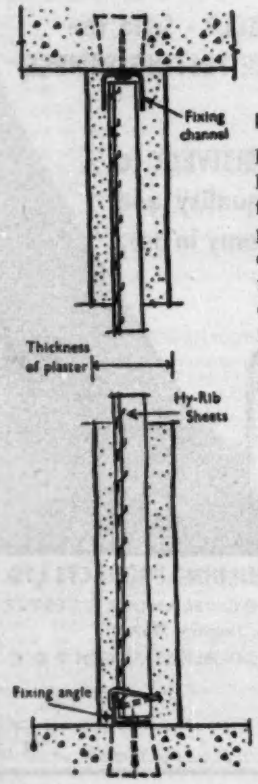

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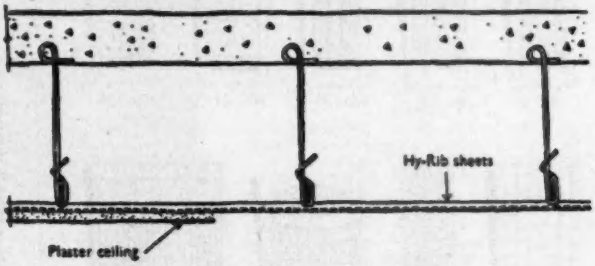

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SERVICES, PAINTING, MATERIALS, ETC.

APRIL 1

***†Swansea CBC.**—Electrical installation at new students' hostel, Swansea Training College. Boro' A. Dep. £2.

APRIL 4

***Wrexham UDC.**—External painting of 140 houses, six bungalows, two shops and 16 garages at Rhosycoed, Trevor, and/or 99 houses, eight flats and four bungalows at Penycae and/or 35 houses, four bungalows and two shops at Johnstown, Rhos, and/or 106 houses at Wheatsheaf-la., Gwersyllt. E&S.

APRIL 11

***Uxbridge BC.**—External painting of:—(a) 54 houses at Church-close, Uxbridge; (b) 60 houses at Uxbridge; (c) 53 houses at Hillingdon; (d) 106 houses at Hillingdon; (e) 150 houses at Hillingdon; (f) 82 houses at Hillingdon, and (g) 74 houses at Harefield. One or more. Boro' E&S and A. Dep. £2 2s.

APRIL 13

***Stepney MBC.**—Sidney-st. housing scheme, comprising seven-storey block of 38 dwellings, five-storey block of 14 dwellings and three-storey block of 10 dwellings.—(a) Heating, hot water and sanitary plumbing installation; (b) electrical installation; (c) two passenger lifts in seven-storey block; (d) lightning conductor in seven-storey block. Sydney Clough, Son & Ptnrs. (F/A), 39 Devonshire-st., W.1. Dep. £2s. 2s.

***Wallasey CBC.**—External painting of various schools. Boro' A.

***Welwyn Garden City UDC.**—External redecoration of (a) 93 dwellings and (b) 84 dwellings (either or both). Housing Mgr.

APRIL 20

***Richmond (Surrey) BC.**—External painting and minor repairs to 272 houses and 267 flats on various estates (five contracts). Boro' E&S.

NO DATE

Durham CC.—Renewal of wood floors at South Moor Greenland county sch. C.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

MARCH 31

East Suffolk CC.—Widening and realigning 1,500 lin. yd. of Bungay-Beccles road, A.1116, from 'Watch House' PH to Post Office at Mettingham, including short diversions, fencing, etc. County S. Dep. £5.

Sevenoaks RDC.—Foul sewer consisting of 2,070yd. of 18in., 15in. and 9in. dia. concrete tubes and 730 lin. yd. of 6in. dia. G.S. pipes, and SW sewer of 240yd. of 24in. O.G. concrete tubes to serve LCC estates, Edenbridge, and sewer extension to Mowshurst. E&S. Dep. £2 2s.

APRIL 1

Braintree RDC.—1,000yd. of 6in. and 9in. dia. spun-iron water mains, etc., at Petches Bridge pumping station. Lemon & Blizard, Ccl's. engrs., 59 Tufton-st., SW1. Dep. £5 5s.

APRIL 4

Edmonton BC.—Fixed price tenders for:—(a) Silver-st. sewer (foul water)—450yd. of 21in. dia. concrete pipes in section of North Circular-rd.; (b) Cemetery ditch (SW)—540yd. of 48in. dia., 120yd. of 24in. dia. concrete pipes and 30yd. inverting of existing culvert. Boro' E&S. Dep. £2 2s.

APRIL 6

Haverfordwest RDC.—Hook drainage.—Sewage disposal works and 3,580 lin. yd. of 6in. dia. stoneware sewers, with manholes and house connections. John Taylor & Sons, Ccl's. constg. engrs., Artillery-hse., Artillery-row, SW1. Dep. £5.

Long Eaton UDC.—990 lin. yd. of foul and SW sewers and 3,010 yd. super. of road foundations at Sawley housing site. E&S.

Queensbury and Shelf UDC.—Fixed price tenders for concrete lining of part of mountain reservoir, mass concrete dividing walls and r.c. roof to give capacity of 800,000 galls., and 700yd. of 3in. dia spun-iron main, etc. Arnold Brookshank & Son, Ccl's. constg. engrs., 48 Sunbridge-rd., Bradford, 1. Dep. £5 5s.

†Stevenage DC.—Civil engineering works in contracts of £50,000 or over:—(1) Estate development; (2) main drainage; (3) main roads; (4) water mains. Ch. E.

APRIL 7

Eston UDC.—Fixed price tenders for five miles of 18in. to 60in. dia. sewer (700yd. in heading), including trunk sewer and branch sewers intercepting existing sewerage system and discharging to tidal outfall. E&S. Dep. £5 5s.

APRIL 10

Northfleet UDC.—Fixed price tenders for extensions to sewage treatment works and 2,000yd. of 5ft. dia. effluent outfall. E&S. Dep. £5 5s.

APRIL 11

Thetford BC.—Concrete service reservoir, capacity 600,000 galls., at Barrow Hill. Elliott & Brown, Ccl's. constg. engrs., Stanley-hse., Pelham-rd., Nottingham. Dep. £5 5s.

APRIL 13

Flint, Connah's Quay and Hawarden Joint Water Com.—Renewal of Halkyn main.—3,000yd. of 12in. dia. water main, etc. Ward, Ashcroft & Parkman, Com.'s constg. engrs., 38 The Temple, Dale-st., Liverpool. Dep. £3 3s.

Helmsley RDC.—(1) Reconstruction of sewage disposal works and 300yd. of 12in. and 9in. CI and concrete pipe sewers, with manholes, etc. (2) Electrically operated pumping plant: (a) two pumping sets for tank effluent; (b) one pumping set for sludge. Arnold Brookshank & Son, Ccl's. constg. engrs., 48 Sunbridge-rd., Bradford, 1. Dep. £5 5s. each contract.

Holland (Lincs) CC.—Half mile of new carriageway adjacent to 'Ball House' PH on route A.52. County S. Dep. £5.

Holland (Lincs.) CC.—New bridge, 84ft. long by 27ft. wide, with approaches, and demolition of existing Cuckoo bridge crossing North Drove drain, 2½ miles SW of Spalding. County S. Dep. £5.

Ipswich CBC.—Fixed price tenders for one mile of SW sewer, Princes-st. area. Boro' E&S. Dep. £5 5s.

Wareham and Purbeck RDC.—Two miles of 3in. dia spun-iron water mains, with fittings, communication pipes, booster pump chamber, etc., at Cold Harbour, in Wareham St. Martin parish. E&S. Dep. £3 3s.

APRIL 15

Prescelly Water Bd.—Western Cleddau intake and pumping main and Bolton Beacon reservoir—8,500yd. of 18in. dia. steel main with Viking Johnson couplings, weir, river intake, screening chamber, pumphouse and 5 million galls. open r.c. reservoir. Ward, Ashcroft & Parkman, Bd's. constg. engrs., 38 The Temple, Dale-st., Liverpool, 2. Dep. £5 5s.

Taunton RDC.—Fixed price tenders for (1) 2,052 lin. yd. of 9in. spun-iron, concrete tube and glazed stoneware sewers, 2,650 lin. yd. of 6in. spun-iron and glazed stoneware sewers, 442 lin. yd. of 4in. spun-iron rising main, including laying under River Tone, a canal and main line railway, concrete tube manholes, pumping station, etc., at Creech St. Michael; and (2) 2,356 lin. yd. of 6in. and 9in. glazed stoneware sewers, 100 lin. yd. of spun-iron pumping main, concrete tube manholes, pumping station, etc., at Ruishton. Harvey, McGill & Hayes, Ccl's. constg. engrs., 8 Richmond-rd., Exeter. Dep. £5 5s. each contract.

APRIL 17

Cannock RDC.—Fixed price tenders for sewage disposal works at Coven. A. H. S. Waters & Ptnrs., constg. engrs., 25 Temple-row, Birmingham, 2. Dep. £5 5s.

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GENERAL BUILDING WORK (LONDON)

Camberwell. — SCHOOL ADAPTATIONS. — The LCC Further Education Sub-Com. has approved a scheme for the first stage of proposed improvements at the Camberwell school of arts and crafts at an estimated cost of £10,500. The total cost of the necessary adaptations is estimated at £30,000.

Deptford. — SCHOOL IMPROVEMENTS. — The LCC School Planning Sub-Com. has approved proposals for the extension of a first floor classroom over a flat roof to provide a laboratory for advanced chemistry and the erection of a detached building to provide a geography room, stores and a classroom at Haberdasher's Aske's Hatcham (boys) school at an estimated cost of £13,000.

Hornchurch —BUNGALOWS.—By-law and TP approval to Matthews & Pearce for 38 bungalows and layout of new streets leading from Lake-ave., Rainham.

Hornchurch —HOUSES.—By-law and TP approval to Key (Upminster) Ltd., for 13 houses at Esdaile-gdns., Cranham, and to Manber Building Co., Ltd., for 65 houses at Vincent-rd., Orchard-ave. and Woodside-close, Rainham. The latter firm also received by-law approval for 10 houses at Lambs-la. and The Glen, Rainham.

Hornchurch —HOUSES.—The UDC proposes to build a further 46 houses at the Front-la. housing site. The Council's E&S is V. Williams, AMICE, MIMunE.

Hornchurch —HOUSES.—The MH&LG has decided to permit the erection of nine houses at Rainham-rd., Rainham, for Mrs. E. Joseph.

Paddington.—APPOINTMENT.—The Housing and TP Com. recommends the appointment of Andrew Roberts & Ptnrs., 17 Cromwell-pl., SW7, as quantity surveyors for John Aird Court Stage III housing scheme, which is now envisaged as a 12-storey block of 48 flats. The Director of Housing and Boro' Architect is W. H. Beesley (A), FRICS.

St. Marylebone.—FLATS.—The Housing Com has approved a scheme for the development of the Broadley-st./Penfold-st. site by 32 flats and recommends the appointment of Gardiner & Theobald, 49 Bedford-sq., WC1, as quantity surveyors for the scheme. The architect is Sir Thomas Bennett, KBE, (F), 43 Bloomsbury-sq., WC1.

St. Marylebone.—OFFICES AND GARAGES.—The MH&LG has granted permission to Howard de Walden Estates, Ltd., for a six-storey building for use as professional offices, with five garages, on the site of 21 Devonshire-pl., at the east corner of Marylebone-rd. and Marylebone High-st.

St. Pancras.—OLD PEOPLE'S FLATS.—The Planning and Housing Development Com. has approved, for submission to the planning authority, a proposal for 12 old people's bed-sitting room flats in a two-storey block on a site at Varndell-st. previously reserved for a social centre. The architects are Davies, Arnold & Partners (F), 44 Lowndes-st., SW1.

St. Pancras.—APPOINTMENT.—The Planning and Housing Development Com. recommends the appointment of Waggett & Bradford, 25 Victoria-st., SW1, as quantity surveyors for the proposed scheme of 20 old people's flatlets and a branch library at Oseney-cres. The architect is Thomas Sibthorp (F), AMTPI, 10 Manchester-sq., W1.

St. Pancras.—APPOINTMENT.—The Planning and Housing Development Com. recommends the appointment of Bridgwater & Shepheard (F/A), 42 Bruton-pl., W1, as architects to prepare a sketch scheme for the redevelopment of area 'B' of the Camden Town (No. 2) estate with a view to the immediate redevelopment for hous-

ing purposes of the site of the Camden-st. mission hall (recently damaged by fire) and the retention or rebuilding of the Camden studios at the rear.

St. Pancras.—APPOINTMENT.—The Planning and Housing Development Com. recommends the appointment of Drower & Son as quantity surveyors for 114 Unity and Reema dwellings at Dartmouth Park Hill and on various small sites. The Housing Manager is A. W. Davey, AIAS, FIHsg.

St. Pancras.—POLICE STATION.—The MBC has approved, as freeholder, plans for the proposed new Albany-st. police station as submitted by the Receiver for the Metropolitan Police District. The Chief Architect and Surveyor to the Metropolitan Police is J. Innes Elliott (A), New Scotland Yard, SW1.

St. Pancras.—SITE ACQUISITION.—The LCC Housing Com. proposes to acquire areas and a site at Raglan-st. for partial redevelopment in conjunction with a site being acquired under planning powers, providing a total area, for housing purposes, of 1.88 acres, on which 52 dwellings can be erected.

Wandsworth. — SUPPLIES DEPOT. — The Finance Com. of the LCC has submitted an estimate for 1959-60 of £150,000 for the erection, on the Camborne-rd. site, Kimber-rd., of a new supplies depot. The total cost of the work is estimated at £519,000.

(PROVINCIAL)

Birkenhead.—EC received Ministry approval for alterations and additions to Park high sch. for girls, £73,815 est.—BC approved scheme for reconstruction of Argyle-st. baths.—Proposes eight-storey flats on Tranmere Depot site.

Brandon, Co. Durham.—J. E. Myers, 20 Finkle-st., Stockton-on-Tees, appointed QS by Durham CC for proposed mod. sch. County A: G. R. Clayton (F), South-st., Durham.

Brighton.—Marsden (Kent), Ltd., Orpington, propose building 10 or 11-storey block of luxury flats, with bars and restaurants below, on site of Albemarle hotel. £250,000 est.

Buxton.—Plans submitted to BC:—Extensions and adaptations at Kents Bank sec. mod. sch. for boys for Derbys. CC.—Industrial development at Hardwick-sq. South for Otter Controls, Ltd.—Industrial and residential development at Grin Quarry for F. Eve, Ltd.—Residential development at Manchester-rd. for F. Allcock & Sons, Ltd.

Carlisle.—Plans approved for 44 houses and 18 bungalows nr. Dalston-rd. and Langrigg-rd. for John Twiname, Ltd., builders, Brigham, Cumberland. A: Oldfield, Simpson & Saul (L), National Provincial Bank-chbrs., Workington.

Carlisle.—City C to carry out improvements to west bay at Market Hall. £25,000 est. City E: L. J. A. Stow, 18 Fisher-st., Carlisle.

Chesterfield.—MoW proposes commencing work in autumn on new telephone exchange at Saltergate, £160,000 est.—TC to erect 300 houses in 1959 programme, first 60 to be put out to tender and second 60 to be allocated to direct labour.—The Dee Lea Colliery Co., Ltd., propose residential development south of Dukes-dr., Newbold.

Chesterfield.—RDC approved erection of workshop, lecture room and records office at Area Workshops, Old Peveril-rd., Duckmanton, for National Coal Bd.

Clowne.—RDC to erect 12 bungalows at Park View and 16 houses at New-st. area, Bakestone Moor, Whitwell. A: J. Haslam & Sons, Ryton-chbrs., Newcastle-ave., Worksop.

Colne.—TC proposes further 22 bungalows at Ellesmere-ave.

Felling, Co. Durham.—R. Burke (L), 10 Lambton-rd., Jesmond, Newcastle-on-Tyne, is A for proposed RC sch. at Colegate, Leam-la. estate.

Gateshead.—Cackett, Burns Dick & McKellar (F), 21 Ellison-pl., Newcastle-on-Tyne, are preparing plans to extend by 15,000 sq. ft. Burgess Products' factory at Team Valley Trading Estate. No contracts let.

Guisborough, Yorks.—UDC seeks loan sanction for £132,795 for housing scheme at Hutton-la. S: A. T. Pallister.

Halstead, Essex.—Whitlock Bros., Ltd., received planning permission for factory extensions covering 50 000 sq. ft., with additional access road, on their 30-acre site at Yeldham. Firms' own plans.

Havant and Waterloo.—S.E. Hants Area Planning Com. recommended County Planning Com. to give outline permission to application from Grenfield, Ltd., for 20 houses, 52 bungalows, one shop, 8 flats, and 77 garages, off Redlands-la. Emsworth.

Jarrow.—TC plans 500 houses in Boldon overspill area.—MH&LG approved Ccl's. plans for 20 houses at Shakespeare-st. and 83 in Stead-st. redevelopment area. Boro' E: H. W. T. Perkins, Town Hall, Jarrow.

Kidderminster.—TC to negotiate tender with G. Wimpey & Co., Ltd., London, for 125 dwellings at Habberley estate.

Lancaster.—RC Authorities propose new sec. sch. in 1960 programme and Lancs. EC propose new county sch. at Torrisholme.

Leigh.—Lancs. CC approved erection of kitchen, small hall and dining room at CofE sec. sch., £13,814 est.

Manchester.—TC approved plans for aged persons' hostels in garden of Sarah Laski Children's Home, Crumpsall-la., Crumpsall, for Manchester Jewish Board of Guardians. Plans by P. R. Nuttall (A), 5 Hawks-gro., Rawtenstall.

Margate.—TC purchased Hippodrome, Cecil-sq. and bombed Regal cinema site for redevelopment in connection with proposed new town hall and municipal offices.

North Shields.—G. H. Gray & Ptnrs. (F/A), Portland-terr., Newcastle-on-Tyne, are A for factory extensions (13,500 sq. ft.) for Torday, Ltd., electro-platers. No contracts let.—Hastie D. Burton, Ltd., builders, to rebuild their premises between King-st. and Queen-st. which were recently destroyed by fire.—J. H. Rogers, builder, Regent-terr., North Shields, to build houses and bungalows on site of former pitheap at Tudor estate.

Northants.—CC approved erection of hall, classroom, staff room and lavatories at Brigstock, Latham's Charity sch., £15,000 est.: hall and classroom at Corby, Studfall county infants' sch., £12,500 est.: hall, two classrooms, staff room and lavatories at Dunston CofE sch., £20 000 est.

Northumberland.—CC to proceed with £286,000 scheme for new road between Bebside and Sleekburn, and bridge over River Blyth. Road, about 1¼ miles long, will be built by direct labour, but tenders will be obtained for bridge scheme. County S: G. Garnett, Phoenix-hse., Queen-st., Newcastle-on-Tyne.

Nottingham.—TC proposes new hostel at Clifton estate, £56,102 est.

Oxford.—Oxford University Congregation proposes extensions to Dept. of Education to accommodate 70 more students and transfer of Institute of Education to new site at Norham-gdns.

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Ramsgate.—TC approved erection of 28 bed sitting-room flats in blocks of four on land at top of St. George's-rd. and Rosebery-ave.

Ramsgate.—Nelbarden Mfg. Co., Ltd., Sandwich, received MH&LG approval for a factory on site of old greyhound stadium at Newington.

Rochdale.—RC Authorities propose new sec. sch. at Shawclough and new prim. sch. in Newbold area.

Southampton.—BC recommended that No. 19 Winn-rd. be converted to old people's home, £15,000-£20,000 est.

Stoke-on-Trent.—Licensing Justices approved plans for new PHs at Dividy-rd., Bucknall, for Worthington & Co., Ltd., and at Pound-gdns., Norton-in-the-Moors for Ind Coope & Co., Ltd.

Sunderland.—Quantities in hand for six shops and flats at Ravenscourt-rd., Hylton Red House estate for TC. Boro' A: H. C. Bishop (A), Grange-hse., Stockton-rd., Sunderland.

Sunderland.—TC received sanction to borrow £167,574 for site preparation works on Town End Farm estate.

Sutton Coldfield.—Executive of Latter Day Saints proposes new church at Carsic estate.

Thornbury, Glos.—Central Electricity Generating Bd. to start work in September on new research centre adjoining Berkeley nuclear power station, £1m est.

Warrington.—Co-operative Socy., Ltd., proposes new office accommodation and Co-operative Hall in former Winwick-rd. bakery.

West Hartlepool.—TC has decided that three-storey blocks of flats, maisonettes and old people's bungalows should be built in Hilda-st. and Burnbank-st. redevelopment area, instead of terrace houses, as previously proposed. Boro' A: A. G. Sinclair (A), Municipal-bldgs., West Hartlepool.

West Hartlepool.—TC to sell 3,300 sq. yds. of land at junction of Burn-rd. and Whitby-st. to Readymixed Concrete, Ltd., for readymixed concrete production centre.—George Wimpey & Co., Ltd., Orchard-hse., Fenwick-terr., Newcastle-on-Tyne, to carry out housing developments on 13 acres of land at West Park.—Taylor & Evans, builders, Elwick-rd., West Hartlepool, to erect 30 houses at Eldon estate, and plans approved.—Cairns & Byles, 8 Osborne-rd., Newcastle-on-Tyne, appointed constg. engrs., for heating and lighting work in connection with welfare hostel at Owton Manor estate. Boro' A: A. G. Sinclair. Tenders expected in autumn. —The British Transport Commission to spend £102,000 on flood prevention works in Old Town area. Work will be done in two stages. £48 000 and £54,000 est.

Wolverhampton.—BC approved layout for 119 dwellings at Wright-st.

TENDERS

* Denotes *accepted*.
† Denotes *provisionally accepted*.
‡ Denotes *recommended for acceptance*.
§ Denotes *accepted subject to modification*.
¶ Denotes *accepted by H.M. Government Departments*.

Amersham, Bucks.—New Chalfont St. Peter county sec. sch. for Buckinghamshire CC. County A: F. B. Pooley (F), FRICS, AMTPI. *E. S. Gates, Ltd., Amersham, Bucks. £86,000.

Arnold.—30 houses at Sherbrook estate for UDC. E&S: L. H. Roxby, AMICE, MIMunE. QS: Herbert J. Turner, Nottingham. Brailsford & Pigott (Builders), Ltd., £44,869; G. Foster, £44,173; H. Parkinson & Son, Ltd., £43,652; Herbert Baggaley, Ltd., £43,409; C. A. Warden, £42,413; G. Shipman & Son, Ltd., £42,250; J. Searson, Ltd., £42,127; Rostance (Builders), Ltd., £42,111; Adam Eastwood & Sons, Ltd., £42,039; *Arthur G. Clower, Ltd., Daybrook, Notts, £40,770.

Ashton-under-Lyne.—Fixed price tenders for 106 houses at Lords' Field Estate for BC. Boro' E&S: Allen Fisher, MIMunE. QS: Harry Eaton, AIAS, 134, Deansgate, Manchester, 3. *Direct labour. £150,000 (approx.).

Billingham-on-Tees.—Erection of infants' sch. at Low Grange, Billingham, for Durham CC. County A: G. R. Clayton (F), South-st., Durham. *J. W. Henderson & Co. (Stockton), Ltd., Church-rd., Stockton-on-Tees. £47,180.

Birmingham.—Following for EC: Erection of Wychbold mixed tech. sch. *Frank Davis (Builders), Ltd., College-rd., Birmingham. £218,452.—Erection of Ladywood prim. jun. sch. *W. & J. Webb, Ltd., 257 Great King-st., Birmingham. £75,900.—Erection of Firs infants' sch. *John Dallow & Sons, Ltd., John-st., Blackheath. £34,672.

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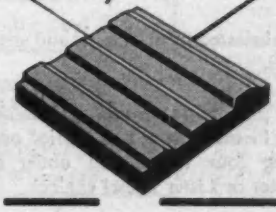

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Bolton.—Block of shops at Newport-st. for Ravenseft Properties, Ltd. A: Messrs. Lionel H. Fewster & Ptnrs., 22 Conduit-st., W1. *John Dickinson & Co., Ltd., Fairclough-st., Bolton.

Carlisle.—86 houses, four bungalows and eight flats at Morton estate for City C. City S: L. J. A. Stow, AMICE, MIMunE. ‡John Laing & Son, Ltd., Carlisle. £117,751.

Chatham.—12 flats at Ordnance-st., 12 flats at Hardstown for BC. Boro' E&S: J. A. T. Richards, FIAS, MInstHE. QS: Rider Hunt & Ptnrs., Gillingham. *C. J. Howard & Son, Ltd., 272a High-st., Chatham. £38,241.

Coventry.—Block 'J' in middle precincts of Civic Centre, with shops on ground floor and offices above, incorporating ballroom for lease to Mecca Dancing, Ltd., on 2nd and 3rd floors, restaurant, etc. City A: A. J. Ling (F), MTPI. *George Wimpey & Co., Ltd., Hammersmith-gro., W6. £204,209.

Crewe.—Fixed price tenders for 20 flats and 40 houses at Marshfield Bank estate for BC. Boro' S: F. Merrill, AMICE. *Direct labour. £83,519.

Daventry.—8 houses and 4 bungalows at Byfield and 6 houses at Kilby for RDC. *Haynes & Sons (Daventry), Ltd.

Dorking.—32 dwellings at Goodwyns estate for UDC. *Walker (Tooting) Ltd. £55,519.

Felling, Co. Durham.—59 maisonettes in Wellington-st. redevelopment area for UDC. S: R. Morton. *John Clark & Son, Ltd., Gregson-terr., Seaham.

Felling, Co. Durham.—New mod. sch. at Leam-la. for Durham CC. A: Messrs. C. S. Errington, 46 Grainger-st., Newcastle-on-Tyne. *D. Glen, Ltd., Albert-rd., Jarrow-on-Tyne. £174,477.

Gateshead.—Factory extensions (14,000 sq. ft.) for Perga Cartons, Ltd., Team Valley trading estate. Plans by North-Eastern Trading Estates, Ltd. *A. Monk & Co., Warrington.

Gosport.—Five-storey block of 11 flats and maisonettes in 'No Fines' construction (including abnormal foundations) at Portland-pl. for BC. ‡George Wimpey & Co., Ltd. £19,998. (Fixed price tender.)

Hampstead.—Conversion of 116 Fitzjohn's-ave., NW3, into 38 dwellings for BC. Housing A: C. E. Jacob (A). QS: A. E. Thornton-Firkin & Ptnrs., 17 Fitzhardinge-st., W1. ‡Poolman (Builders), Ltd., Sutherland-hse., Edgware-rd., NW9. £44,039.

Ilford.—Roding Valley mid-level sewer for BC. Boro' E: H. J. Mulder, MICE.. *Percy Bilton, Ltd., Park-la., W.1. £99,787.

Ipswich.—Reinstatement of war damage and additional accommodation at Nacton-rd. sec. mod. girls' sch. for TC. ‡George A. Kenney & Son, Ltd., Ipswich. £25,943.

Liskeard.—81 dwellings and nine garages at Lake-la. for BC. Boro' S: R. C. Sanderson. Constg. A: G. R. Vaughan Ellis, Trehawke-hse., Liskeard. QS: J. H. Snellgrove & Ptnrs., 5 Portland-sq., Plymouth. C, Bryant & Son, Ltd., £159,559; Aubrey Long, Ltd., £159,376; John Garrett & Son, Ltd., £158,122; Dudley Coles, Ltd., £154,350; Gray, Conoley & Co., Ltd., £149,097; Staverton Builders, Ltd., £143,523; E.B.C. & Sleeman, Ltd., £140,589; J. W. Spencer, Ltd., £139,149; *Selleck, Nicholls & Co., St. Austell. £139,105.

¶London (Air Ministry).—New works contracts to value of £500 or over for week ended March 13:—*Building work:* Chicksands, Beds., Robert Marriott, Ltd., Midland Works, Rushden, Northants. *Artificers' works:* Stafford, etc., Staffs., Lewis & Watters, Ltd., Lillington, Leamington Spa, Warwicks.; Exeter, etc., Devon, Devon Contractors, Ltd.; Venny Bridge, Whipton, Exeter; Aldergrove, etc., Northern Ireland, F. Parkinson, Ltd., Mowbray-dr., Blackpool, Lancs. *Roofing work* (refelting): Boscombe Down, Wilts., Macartney, Ltd., Birkett-hse., 27 Albemarle-st., W1.

London (British Railways).—New contracts placed by Western Region:—Colston Electrical Co., Ltd., 39 Buller-rd., Exeter, for supply, installation, testing, connecting and setting to work of electric lighting facilities, etc., at Wellington, Somt. station and yard.—Fisher & Ludlow, Ltd., Bordesley Works, Birmingham, 12, for supply and erection of overhead storage platform and open type steel shelving at 'R' stores, carriage and wagon works, Swindon.—Fuel Furnaces, Ltd., Great Bar, Birmingham, 22a, for supply and erection of two quenching machines, one charging machine and one oil cooler at case hardening shop, locomotive works, Swindon.—A. N. Coles (Contractors), Ltd., Sutton-rd., Plymouth, for earthworks, inspection pits, drainage and fuel storage in connection with fuelling and inspection facilities for Diesel working at running and maintenance depot, Newton Abbot. (Contract No. 1.)—Nott, Brodie & Co., Ltd., Sheene-rd. Works, Malago-vale, Bristol 3, for construction of fuel storage depot, examination pit, amenities block and drainage in connection with fuelling facilities for Diesel rail cars at Westbury, Wilts.—Cowans, Sheldon & Co., Ltd., St. Nicholas Works, Carlisle, for supply and erection of one 2-ton electrically operated capstan at Merthyr (Plymouth-st.) goods depot:—Lorne, Stewart (Heating), Ltd., Empire-way, Wembley, Middx., for supply and installation of water mains at Margam marshalling yard, Port Talbot.—Stone & Co. (Bristol), Ltd., Redland-rd., Bristol 6, for construction of warehouse, messroom and offices at Avonside Wharf, Bristol.

London (British Railways).—Contracts placed by Eastern Region:—Siemens and General Electric Railway Signal Co., Ltd, East-la., Wembley, for supply and installation of signalling equipment, etc., including automatic train control equipment between Barking and Pitsea via Tilbury (Tilbury loop line).—W. & J. Simons, Ltd., Friars-la., Lincoln, for reconstruction and repairs to platform walls and resurfacing and drainage of platforms at Lincoln Central station.—Brightside Heating and Engineering Co., Ltd., Don-rd., Sheffield, 9, for supply, delivery and installation of compressed air facilities and oil stores at diesel maintenance depot, Finsbury Park.—Carter-Horsey (Engineers), Ltd., Merebank-la., Waddon, Surrey for repairs to Valkyrie-rd. overbridge at Westcliff.—Hosking & Son (Essex), Ltd., Windmill-la., Cheshunt, Herts, for provision for feeder station at Rye House.—Samuel Hodge & Sons, Ltd., Victor Engineering Works, New-rd., Rainham, Essex, for repairs to wagon hoist at Selby-st. goods yard, Spitalfields.

London (British Railways).—Recent contracts placed by North Eastern Region:—Darlington North-rd. locomotive works: retaining walls, foundations, ducts and drainage. Tarslag, Ltd., Stockton-on-Tees.—Bradford Forster-sq.: two diesel industrial tractors. Lansing Bagnall, Ltd., Basingstoke.—Stockton goods depot: Electric platform trucks and equipment. ITD, Ltd., Birmingham.—Newcastle Forth goods station: two runabout cranes and spare batteries. Ransomes Sims & Jefferies, Ltd., Ipswich.—Hull Springhead vacuum testing and machine shops: heating installation. W. Richardson & Co., Ltd., Darlington.

London CC.—Accommodation for teaching of science and minor adaptations at Henry Compton county sec. sch., Fulham. A: Shingler & Risdon (F), 47 Bedford-row, WC1:—

Ford & Walton, Ltd.	£37,497
John Mowlem & Co., Ltd.	37,496
Ward & Paterson, Ltd.	36,010
Walter Gladding & Co., Ltd.	35,995
W. J. Jerram, Ltd.	35,890
E. J. Lacy & Co., Ltd.	34,578
*Rice & Son, Ltd., Lambeth (after arithmetical correction).	34,109

Architects' comparable estimate is £39,000.

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London CC.—Contracts recently placed by Council:—Major repairs at John Milton county prim. sch., Battersea. *A. H. Franklin & Sons, Ltd., SW6. £14,131.—Improvements to science accommodation at Henry Compton county sec. sch., Fulham *Rice & Son, Ltd., Lambeth. £34,109.—Electric water heaters in 209 dwellings at Becontree estate, Dagenham. *F. J. Baynes & Co., Ltd., Islington. £10,528.—Gas water heaters in 394 dwellings at Becontree estate, Dagenham. *F. J. Baynes & Co., Ltd., Islington. £15,995.—Alterations to Archway county sec. sch., St. Pancras. *Robertson & Cameron (Building Contractors), Ltd., Camberwell. £16,590.

London CC.—Provision of additional classrooms and laboratories and other accommodation at Ensham county sec. sch., Wandsworth. A: Architects' Co-Partnership, 44 Charlotte-st., W1.:

Bridge Walker, Ltd.	£32,665
M. Howard (Mitcham), Ltd.	32,458
Truett & Steel, Ltd.	31,743
W. R. Oldham, Ltd.	31,000
Siggs & Chapman, Ltd.	30,821
Walter Lilly & Co., Ltd.	30,811
Greenaway & Son, Ltd.	30,600
*William Blood, Ltd., Lambeth (after arithmetical correction).	29,886

Architects' comparable estimate is £30,080.

London CC.—Fixed price tenders for adaptation and improvement of buildings for use by new Archway county sec. sch. for boys and girls, Islington:

R. J. Adams, Ltd.	£19,200
T. R. Roberts (Builders), Ltd.	18,963
Mullen & Lumsden, Ltd.	18,764
Harrison & Spooner, Ltd.	18,606
C. J. Manning (Builders), Ltd.	18,467
*Robertson & Cameron (Building Contractors), Ltd., Camberwell	16,590

Architect's comparable estimate is £16,908.

London CC.—Major repairs, redecoration and some minor improvements at Wyvil county prim. sch., Vauxhall:

Walter Lilly & Co., Ltd.	£37,598
William H. Figgis	35,978
William Blood Ltd.	35,854
Sims & Russell, Ltd.	35,392
H. T. Oliver & Sons, Ltd.	34,732
R. J. Truscott, Ltd.	33,583
*Courtney & Fairbairn, Ltd., Camberwell	31,933
E. A. Russell, Ltd. (tender withdrawn)	28,288

Architect's comparable estimate is £33,344.

¶London (Metropolitan Police).—Works of adaptation and dilapidations at East London Juvenile court (ex Bow County Court). A. E. Field (Builders), Ltd. £5,283.

¶London (MoW).—Contracts placed for week ended March 6:—*Essex:* Sorting office, North-st., Romford, extensions to welfare accommodation, Barvis Ptnrs., Ltd., 45 Queens-rd., Brentwood. *Fifeshire:* Head Post Office, Leven, reconstruction, Robert Durie & Son, 246 Wellesley-rd., Methil. *Glamorgan:* Post Office telephone exchange, Park-st., Cardiff, extension Gee, Walker & Slater, Ltd., Coychurch-rd., Bridgend. *Hampshire:* Northbourne, erection of telephone exchange, Cooper & Rowe, Ltd., Lion Works, Wallisdown-rd., Bournemouth; Ferndown, erection of telephone exchange, Cooper & Rowe, Ltd., Lion Works, Wallisdown-rd., Bournemouth. *Huntingdonshire:* Head Post Office, George-st., Huntingdon, erection of garage, etc., Kerridge (Cambridge) Ltd., Sturton-st., Cambridge. *Isle of Wight:* Osborne-hse., alterations to kitchen, etc., W. H. Brading & Son, Ltd., East Cowes. *London:* Northumberland-hse., Northumberland-ave., WC2, internal decoration work—modernisation of zone 'A,' Sykes & Son, Ltd., 8 Essex-st., Strand, WC2; Inland Revenue Office, Colquhoun-hse., Broadwick-st., W1, occupational services, Howe & White, Ltd., 35 Manor-rd., Wallington, Surrey; HM Stationery Office, Loman-st., Southwark, SE1, erection of new printing works, Wilson Lovatt & Sons, Ltd., 16 Grosvenor-cres., SW1. *Hertfordshire:* Welwyn Garden City, erection of sorting office and garage, Sir Lindsay Parkinson & Co., Ltd., 6 Lambeth-rd., SE1. *Middlesex:* Osterley-mans., Jersey-rd., Osterley Park, repairs to roads, paths and drains, W. P. Daly, 6 Dennis-ave., Wembley; General Post Office, Eastcote, alterations in Block 2, Sheppard & Short, Ltd., Harrow-rd., Sudbury, Wembley. *Ross and Cromarty:* Post Office, Gairloch, erection of telephone exchange, Duncan Logan (Builders) Ltd., Muir of Ord.

Sussex: Post Office and sorting office, North-rd., Brighton, adaptations and extension, James Barnes & Son (Builders) Ltd., 37 Grand-parade, Brighton, 7.

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¶**London (War Dept.).**—Works contracts placed in week ended March 6.—*Cheshire:* (Chester), miscellaneous, W. H. Roberts (Builder & Contractor) Ltd., Birkenhead. *Essex:* (Shoeburyness), ranges, W. J. Cearns, Ltd., London. *Kent:* (Dover-Folkestone), concrete structures, Crendon Concrete Co., Ltd., Aylesbury. *Monmouthshire:* (Beachley), building, S. J. Kear & Son, Ltd., Coleford. *Oxfordshire:* (Wheatley), painting and decorating, Decorative Painting Contractors, Hounslow. *Shropshire:* (Wem), painting and decorating, T. E. Cundy & Son, Ltd., Leicester. *Surrey:* (Blackdown and Woking), repairs to Eclair doors, Eclair Doors, Ltd., Birmingham; (Guildford) hot water, The Ray-Heeting Co., Ltd., Gt. Bookham.

Maidstone.—Western section of Maidstone by-pass, consisting of 1½ miles of dual carriageways, diversion of London-Dover road, A20, near Boro' boundary, for ½ mile, and several bridges, including one over River Medway with clear span of 120 ft. *Sir Robert McAlpine & Sons, Ltd. £900,000 (approx.).

Nottingham.—67 houses and 14 flats at Clifton estate for TC. *Rostance (Builders) Ltd., Kings Meadow-rd. £98,700

Nuneaton.—Phases 1 and 2 of Camp Hill infants' sch. for EC. *A. R. Lane, Ltd., Coventry. £9,678 and £29,946.

Paddington.—12 bed-sitting room flats for old people at 210-220 Kilburn-la. for MBC. Director of Housing and Boro' A: W. H. Beesley (A), FRICS. *Poolman (Builders) Ltd., Sutherland-hse., Edgware-rd., NW9. £19,939 (fixed price tender).

Redditch.—New district office and depot at Windsor-rd. for Midlands Electricity Bd. *J. & F. Wootton, Pinfold, Bloxwich, Walsall.

Rochdale.—New Methodist church at Kirkholt estate. *Ernest Haigh & Son, Ltd., Deeplish, Rochdale.

Rugby.—New Town Hall and municipal offices for TC. *J. Parnell & Son, Ltd., Oliver-st., Rugby. £163,920.

Sheffield.—Alterations and extensions to City Training College for TC. *Direct labour.

Southend-on-Sea.—12 one-bedroom flats at Archer-ave. for CBC. Boro' A: P. F. Burridge (F). QS: Reekes & Mann, 23 Bloomsbury-sq., WC1. *C. S. Wiggins & Sons, Hart-rd., Thundersley, Essex. £15,887.

Tipton.—8-storey block of 48 flats, stores and garages at Churchyard-rd. site for TC. *Wates, Ltd., London. £87,942.

Wallasey.—74 maisonettes, 22 garages and electricity sub-station with paths, drains, etc., in Church-st. area for CBC. Boro' A: W. P. Clayton (A). QS: Langdon & Every, Church-st., Liverpool. *J. L. Rawsthorne, Ltd., Belvidere Sawmills, Wallasey.

West Bromwich.—180 dwellings, 59 garages and roads and sewers for TC. *F. A. & H. Taylor, Croxtall-rd., Bloxwich. £231,782.

Westminster.—31-storey tower block of offices, 8-storey block of offices and 11-storey residential block with parking space on ground floor and two upper floors for 250 cars, on 3¼-acre site fronting Millbank, between Thames-hse. and Queen Alexandra Military Hospital for Legal and General Assurance Socy., Ltd. A: Ronald Ward & Ptnrs. (F/A), 29 Chesham-pl., Belgrave-sq., SW1. QS: Franklin & Andrews. Constg. engrs.: Travers Morgan & Ptnrs. *Main contrs.:* *John Mowlem & Co., Ltd. (Total cost £5m. est.)

Whitby.—Repairs to east and west piers for UDC. Constg. engrs.: Lewis & Duvivier, 122 Victoria-st., SW1. *Yorkshire Hennebique Construction Co., York. £133,815.

Wolverhampton.—New district fire station at Busbury for BC. *Direct labour. £42,549.—Three additional classrooms at Underhill CP sch. *Vic Hallam Ltd., Langley Mill, Notts. £12,000.

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OFFICIAL ANNOUNCEMENTS

COMPETITIONS CONTRACTS PUBLIC APPOINTMENTS

Rate: 30/- per inch, minimum ½-inch; each additional line 2/-

EASTER

THE ISSUE DATED
MARCH 27th
CLOSES FOR PRESS
MARCH 23rd

24 HOURS EARLIER THAN IS CUSTOMARY

CONTRACTS

SWIMMING BATHS, SOUTHAMPTON.

County Borough of Southampton invites TENDERS from Building and Civil Engineering Contractors for the ERECTION, at Western Esplanade, Southampton, of NEW SWIMMING BATHS, comprising two pools, seating for 900 spectators, 30 slipper baths, changing and other ancillary accommodation. The contract includes all building, civil engineering and mechanical services; consultants for the structure and services are Messrs. J. G. Mouchel and Partners.

Forms and particulars including Bill of Quantities from Borough Architect on written application by 6th April, 1959. R.I.B.A. Contract plus Supplementary Conditions available for inspection.

Tender to Town Clerk, Civic Centre, Southampton, by 10 a.m. 1st JUNE, 1959.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

PROPOSED BATHROOM AND W.C. EXTENSION AND PROVISION OF HOT WATER INSTALLATION TO 40 NO. HOUSES, RUSKIN-AVENUE.

The Council invites applications from Building Contractors who wish to TENDER for the above Works which comprise the ERECTION of a BATHROOM and W.C. EXTENSION and INSTALLATION of HOT WATER SYSTEM to each of forty houses, and works incidental thereto.

Such Applications must be received by the Borough Architect, 30 Alexandra-street, Southend-on-Sea, by 10 a.m., WEDNESDAY, 8th APRIL, 1959, together with details of similar works previously undertaken and names of Architects from whom references may be obtained. From such applications a selected list of tenderers will be made, and those selected will be notified and will be required to make a payment of a deposit of £2.

Upon receipt of this deposit, the Bills of Quantities and Form of Tender will be forwarded, and it is anticipated that these will be available towards the end of APRIL, 1959. The deposit of £2 will be refunded on receipt of a bona fide tender OR the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any tender.

ARCHIBALD GLEN,
Town Clerk.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

PROPOSED FOUNDATIONS TO PREFABRICATED CLASSROOMS AT DOWSETT HIGH SCHOOL FOR GIRLS.

TENDERS are invited for the performance of works in connection with the proposed CONSTRUCTION OF FOUNDATIONS TO PREFABRICATED CLASSROOMS AND WORKS INCIDENTAL THERETO, at Dowsett High School for Girls, Boston Avenue, Southend.

General Conditions of Contract may be inspected and copies of Form of Tender, Specification and Drawing obtained on and after THURSDAY, 19th MARCH, 1959, on application to the Borough Architect, 30, Alexandra-street.

Sealed tenders addressed to the undersigned and endorsed "Foundations to Prefabricated Classrooms, Dowsett High School for Girls" are to be delivered to this office before 3 p.m. on WEDNESDAY, 8th APRIL, 1959, and no tender received thereafter will be considered.

No tender will be received except in the special envelope provided which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any tender.

ARCHIBALD GLEN,
Town Clerk.

STEPNEY M. B. C.

SIDNEY-STREET HOUSING SCHEME.

Block 5—7 storeys (38 dwellings).
Block 6—5 storeys (14 dwellings).
Block 12—3 storeys (10 dwellings).

TENDERS are invited for:—

(a) Heating, hot water, cold water, and sanitary plumbing installation; the heating and hot water to Block 5 to be an extension of the system in an adjacent block; other blocks to have individual self-contained systems;
(b) Electrical installation;
(c) Two passenger lifts in Block 5 only;
(d) Lightning conductor installation in Block 5 only.

Forms of Tender, with conditions, etc., obtainable from Messrs. Sydney Clough, Son & Partners, 39 Devonshire-street, W.1, on payment of deposit of £2 2s. 0d. for each set of Tenders, cheque to be made payable to Stepney Borough Council.

Closing date for Tenders—NOON, MONDAY, 13th APRIL, 1959.

WILFRED REEVE.
Town Clerk.

NORTHAMPTONSHIRE STANDING JOINT COMMITTEE.

RUSHDEN: TWO PAIRS OF STANDARD TYPE POLICE HOUSES.

Contractors wishing to tender for the ERECTION of these houses are asked to notify the County Architect, County Hall, Northampton, by TUESDAY, 31st MARCH. From the names received the Committee will select firms to whom particulars will be sent.

J. ALAN TURNER,
Clerk of the Committee.

County Hall,
Northampton.

METROPOLITAN BOROUGH OF WANDSWORTH.

FLATS AT STREATHAM.

Contractors wishing to TENDER for ERECTION OF THREE-STOREY BLOCK OF NINE FLATS AND THREE HOUSES at Polworth-road should submit names to me by WEDNESDAY, 1st APRIL, 1959, giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at office of Borough Engineer and Architect, Municipal Buildings, S.W.18.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

SWANSEA TRAINING COLLEGE—NEW STUDENTS' HOSTEL.

ELECTRICAL INSTALLATION.

Firms wishing to TENDER for the ELECTRICAL INSTALLATION at the above Hostel are invited to submit their application to the Borough Architect, The Guildhall, Swansea, on or before WEDNESDAY, 1st APRIL, 1959.

Plans, Specification and Conditions of Contract can be obtained on application and deposit of Two Pounds provided that the applicant gives satisfactory evidence of having previously carried out work of a similar character.

The deposit will be refunded after delivery of a bona fide Tender (not subsequently withdrawn) and the return of all documents.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

The Guildhall,
Swansea.
10th March, 1959.

BOROUGH OF FOLKESTONE.

PAIR OF HOUSES—WALTON-ROAD.

Contractors wishing to TENDER for the above are invited to submit their names, together with a deposit of £2 2s. 0d. to the Borough Engineer, 2-10, West Terrace, by not later than the 31st MARCH, 1959.

N. C. SCRAGG,
Town Clerk.

Town Clerk's Office,
West Terrace,
Folkestone.
10th March, 1959.

COUNTY COUNCIL OF ESSEX.

1. Chigwell Debden BRANCH LIBRARY.
2. Canvey Island FIRE STATION.

Contractors wishing to TENDER for the ERECTION OF THE ABOVE should forward their names, from which panels will be chosen and provided with Bills of Quantities.

1. In load bearing brickwork, timber roofs and light steel trusses, estimated cost £18,500. Bills of Quantities are expected to be available about the middle of April, 1959.

2. In steel framed and traditional construction on reinforced concrete raft, estimated cost £26,000. The private architects for this contract are Gerald Hinchstone & Partners, London, W.C.1.

Separate applications for each contract to reach the undersigned not later than 28th MARCH, 1959.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

UTTOXETER URBAN DISTRICT COUNCIL.

ERECTION OF THREE PERMANENT OLD AGE PERSONS' BUNGALOWS AT THE JUNCTION OF STAFFORD-ROAD AND WESTLANDS-ROAD, UTTOXETER.

TENDERS are invited for the ERECTION OF THREE PERMANENT BUNGALOWS and INCIDENTAL WORKS.

Conditions of Contract, Bills of Quantities, and Form of Tender may be obtained on application to the Surveyor to the Council, on deposit of the sum of £2 (two pounds) which will be returned upon the receipt of a bona fide Tender not subsequently withdrawn and the return of all documents supplied for tendering purposes.

Copies of the plans can be inspected during normal office hours by appointment only, at the offices of the Surveyor, Old Bank House Annexe, High-street, Uttoxeter.

Tenders in plain sealed envelopes, endorsed "Tender—three Bungalows, Westlands-road" are to be delivered to the undersigned not later than 12 NOON on the 6th APRIL, 1959.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN H. KENNY,
Clerk of the Council.

Council Offices,
Old Bank House,
72, High-street,
Uttoxeter.
11th March, 1959.

LYMM URBAN DISTRICT COUNCIL.

HOUSING SCHEME, WHITBARROW-ROAD.

TENDERS are invited for the ERECTION of 78 HOUSING UNITS consisting of SEMI-DETACHED and TERRACE-TYPE HOUSES and TWO and THREE-STOREY FLATS, at Whitbarrow-road, Lymm.

Drawings may be inspected and Bills of Quantities, Forms of Tender and General Conditions may be obtained from Messrs. J. Mather & W. H. McAlister, Chartered Architects, 84 Bridge-street, Warrington, on payment of a deposit of five guineas, which will be returned on receipt of a bona fide tender not subsequently withdrawn. Cheques, etc., to be crossed and made payable to LYMM URBAN DISTRICT COUNCIL.

Tenders will only be considered if they are submitted in the envelope provided, sealed and delivered not later than 12 o'clock noon on FRIDAY, 10th APRIL, 1959.

The COUNCIL do not bind themselves to accept the lowest or any Tender. The Contract will be subject to the Standing Orders of the Council.

G. BURNIP,
Clerk of the Council.

Council Offices,
LYMM.
11th March, 1959.

DURHAM COUNTY COUNCIL.

TENDERS invited Bowes Museum, Barnard Castle.

(a) CONSTRUCTION OF LIFT WELL.
(b) PROVISION AND FIXING ELECTRIC GOODS LIFT.

Application for further details to County Architect, South-street, Durham, not later than 25th MARCH, 1959.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.
9th February, 1959.

WEST SUSSEX COUNTY COUNCIL.

Contractors wishing to submit a FIXED PRICE TENDER for the undermentioned project, are invited to apply for permission to Tender; such applications to be addressed to the County Architect, County Hall, Chichester, to reach him not later than first post on 7th APRIL, 1959.

THREE STOREY EXTENSION TO NORTH-EAST WING OF COUNTY HALL, CHICHESTER, AND ERECTION OF CANTEEN KITCHEN AND DINING ROOM.
(Job No. 4015.)

Quantities will be issued on or about 3rd June, 1959.

The County Council does not bind itself to accept the lowest or any Tender, and the firm whose tender is accepted must be prepared to enter into a contract in a form to be prepared by me.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.
10th March, 1959.

SOUTH WESTERN REGIONAL HOSPITAL BOARD.

LANGDON EXTENSION, DAWLISH, DEVON.

The Board proposes to invite FIXED PRICE TENDERS for the ERECTION of a WARD UNIT containing Dormitories Dayroom, Sanitary Wing, Kitchen and Staff Rooms of brick construction with roofs of prestressed beam and hollow tile.

The project has been planned by and will be carried out under the direction of the Regional Architect.

Contractors willing to tender for this work are invited to submit their names.

From the names submitted a panel of contractors will be chosen who will be furnished with Bills of Quantities.

Contractors applications should reach the undersigned not later than TUESDAY, the 31st MARCH, 1959. M. O. CARTER, Secretary, 27 Tyndalls Park-road, Bristol, 8.

COUNTY BOROUGH OF OLDHAM.

HOUSING COMMITTEE.

ALT ESTATE.

24 ONE-BEDROOM THREE-STOREY FLATS.

The Housing Committee are prepared to receive FIXED PRICE TENDERS for the ERECTION OF THE ABOVE 24 TRADITIONAL FLATS in two blocks of 12, on the Alt Estate from firms experienced in the execution of such Contracts.

Drawings may be inspected and Bills of Quantities, Forms of Tender and General Conditions may be obtained from Messrs. Cameron & Middleton, F./A.R.I.C.S., Chartered Quantity Surveyors, 21, Queen-street, Oldham, on payment of a deposit of two guineas which will be returned on receipt of a bona fide Tender not subsequently withdrawn. Cheques, etc., to be crossed and made payable to the Borough Treasurer, Oldham Corporation. The Bills of Quantities will be available on and after Monday, 23rd March.

Tenders will only be considered if they are submitted in the envelope provided, sealed and delivered not later than 10 a.m. MONDAY, 13th APRIL, 1959.

The Corporation do not bind themselves to accept the lowest or any Tender. The Contract will be subject to the Standing Orders of the Council which include a requirement in this case, for the provision of Sureties.

EDWARD HAINES,
Town Clerk.

CITY OF SALFORD.

PROPOSED CARETAKER'S HOUSE AT PENDLETON HIGH SCHOOL FOR GIRLS, SALFORD, 6.

FIRM PRICE TENDERS are invited for the construction of a Caretaker's House at Pendleton High School for Girls, Eccles Old-road, Salford, 6.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm Price Tender obtained from the City Engineer and Surveyor's Department, Town Hall, Salford, 3, on payment of a deposit of £2 2s. 0d., which will be returned on submission of a bona fide Firm Price Tender not subsequently withdrawn.

Firm Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 12 NOON on WEDNESDAY, 8th APRIL, 1959.

The Council does not bind itself to accept the lowest or any Firm Price Tender.

R. RIBBLESDALE THORNTON.
Town Clerk.

BOROUGH OF RUGBY.

SITEWORKS AND ERECTION OF 34, "WOOLAWAY" GARAGES.

The Corporation invite TENDERS for the laying of TARMACADAM FORECOURTS AND CONCRETE BASE SLABS TOGETHER WITH DRAINAGE AND INCIDENTAL WORKS and the SUPPLY and ERECTION by specialist sub-contractor at Perkins-grove, Abbots Farm Estate, Rugby, of 34 "WOOLAWAY" PRECAST CONCRETE SECTIONAL GARAGES.

Specification, drawings and Tender documents may be obtained from the Borough Surveyor, Burford House, Rugby on payment of a deposit of £2 2s. 0d., repayable on receipt of a bona fide Tender and the return of all documents.

Tenders, in the envelopes provided, must be delivered to the undersigned by NOON on MONDAY, 6th APRIL, 1959.

The Corporation do not bind themselves to accept the lowest or any Tender.

T. L. DUFFY,
Town Clerk.

BOROUGH OF UXBRIDGE.

EXTERNAL PAINTING CONTRACTS.

TENDERS are invited for the EXTERNAL PAINTING OF HOUSES in the following groups:—

Contract No. 399: Church-close, Uxbridge.	54	HOUSES.
Contract No. 400: Uxbridge.	60	HOUSES.
Contract No. 401: Hillingdon.	54	HOUSES.
Contract No. 402: Hillingdon.	106	HOUSES.
Contract No. 403: Hillingdon.	150	HOUSES.
Contract No. 404: Hillingdon.	82	HOUSES.
Contract No. 407: Harefield.	74	HOUSES.

Specification, Bills of Quantities and Form of Tender may be obtained from: Harold E. G. Stripp, A.M.I.C.E., Borough Engineer, Surveyor and Architect,
263 High-street,
Uxbridge,
Middlesex,
on receipt of a deposit of £2 2s., to be returned on receipt of a bona fide tender.

Tenders may be submitted for one or more contracts and must be returned in the envelope provided, endorsed "Tender for External Painting," bearing no other mark or indication of the sender.

Tenders must reach the undersigned not later than noon on SATURDAY, 11th APRIL, 1959.

The Council do not bind themselves to accept the lowest or any tender.

JOHN POOLE,
Town Clerk.

265 High-street,
Uxbridge.

COUNTY BOROUGH OF WALLASEY.

EXTERNAL PAINTING OF SCHOOLS.

TENDERS to reach the undersigned by 13th APRIL, 1959, are invited for the EXTERNAL PAINTING OF VARIOUS SCHOOLS in the Borough. Specification, Form of Tender and further particulars obtainable from the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

BOROUGH OF RUGBY.

ERECTION OF 31 HOUSES.

The Corporation invite TENDERS for the ERECTION OF 31 HOUSES, comprising 11 two-bedroom and 20 three-bedroom-type houses, at the Abbots Farm Estate, Rugby.

Bills of Quantities and forms of Tender may be obtained after 23rd March, 1959, from the Borough Surveyor, Burford House, Rugby, on payment of a deposit of £2 2s. 0d. Drawings may be inspected during ordinary office hours at the Borough Surveyor's Office.

Tenders, in the envelopes provided, must be delivered to the undersigned by first post on WEDNESDAY, 15th APRIL, 1959. The Corporation do not bind themselves to accept the lowest or any Tender.

T. L. DUFFY,
Town Clerk.

BOROUGH OF RICHMOND (SURREY).

TO BUILDERS.

The Council invite TENDERS for EXTERNAL PAINTING AND MINOR REPAIRS TO 272 COUNCIL HOUSES AND 267 COUNCIL FLATS on various estates in the Borough. This work is set out under five contracts and contractors may tender for these individually or may quote for the whole as one contract.

Forms of tender, specification and schedules may be obtained from the Borough Engineer and Surveyor, Hotham House, Heron Court, Richmond.

Tenders, sealed in envelope provided, must be received not later than 5 p.m. on MONDAY, 20th APRIL, 1959.

The Council do not bind themselves to accept the lowest or any tender.

CLIFFORD HEYWORTH,
Town Clerk.

Town Hall,
Richmond,
Surrey.

BOROUGH OF BASINGSTOKE.

SOUTH HAM ESTATE, BASINGSTOKE.

TENDERS are invited for the ERECTION OF FIFTY-EIGHT DWELLINGS, COMPRISING TWO-STOREY FLATS, HOUSES, AND BUNGALOWS, AND TWENTY-SEVEN GARAGES to the south of St. Peter's-road, Basingstoke.

Forms of Tender, Bills of Quantities, and General Conditions of Contract may be obtained from the Borough Architect, Eric Almond, Dipl. Arch., A.R.I.B.A., Municipal Buildings, Basingstoke, on payment of a deposit of £2 2s. 0d. which will be returned on receipt of a bona fide tender.

Tenders are to be returned to the undersigned by the first post on 14th APRIL, 1959.

The Council do not bind themselves to accept the lowest or any tender.

L. WOMERSLEY,
Town Clerk.

CITY AND COUNTY OF BRISTOL.

TO BUILDING CONTRACTORS.

Watch Committee invite TENDERS for CONSTRUCTION OF RECREATION AND PARADE BUILDING at Redland Police Station, Bristol.

Contractors willing to submit FIXED PRICE TENDERS apply to City Architect, Council House, Bristol, 1, by 6th APRIL with £2 2s. 0d. deposit, payable Bristol Corporation, refundable on receipt of bona fide tender not subsequently withdrawn.

HATFIELD RURAL DISTRICT COUNCIL.

33 DWELLINGS, Dellsome-lane, North Mymms.

11 BUNGALOWS on four sites at Hatfield.

The Council is prepared to receive TENDERS for:—

(a) The ERECTION OF 33 DWELLINGS on the Council site at Dellsome-lane, North Mymms, and

(b) The ERECTION OF 11 BUNGALOWS ON FOUR SITES in Hatfield.

Bills of Quantities for either or both schemes may be obtained from the Council's Engineer and Surveyor, Mr. W. J. Davis, A.M.I.C.E., M.I.Mun.E., A.M.T.P.I., North-place, 82, Great North-road, Hatfield, Herts, on payment of a deposit of £10 10s. 0d. for Scheme A and £5 5s. 0d. for Scheme B, which will be refunded on receipt of a bona fide Tender not subsequently withdrawn.

Tenders must be received by the undersigned not later than 12 NOON on MONDAY, 6th APRIL.

S. F. JAGO,
Clerk of the Council.

3rd March, 1959.

WREXHAM RURAL DISTRICT COUNCIL.

EXTERNAL PAINTING OF COUNCIL HOUSES.

TENDERS are invited from experienced Contractors for the EXTERNAL PAINTING of:—

140 HOUSES, 6 BUNGALOWS, 2 SHOPS and 16 GARAGES, Rhosycoed, Trevor; and/or

99 HOUSES, 8 FLATS and 4 BUNGALOWS, Penycae; and/or

35 HOUSES, 4 BUNGALOWS and 2 SHOPS, Johnstown, Rhos; and/or

106 HOUSES, Wheatsheaf-lane, Gwersyllt.

A copy of the Specification and Forms of Tender may be obtained from the Engineer and Surveyor, Mr. T. A. Bowen, M.I.Mun.E., Imperial Buildings, Regent-street, Wrexham, between the hours of 9 a.m. and 12 noon from FRIDAY, 13th MARCH, 1959.

Tenders on Forms supplied must be delivered to the undersigned not later than 12 noon on SATURDAY, 4th APRIL, 1959, in a plain sealed envelope endorsed "External Painting." The envelope must not bear any name or be marked in any way so as to indicate the sender.

The Contractor whose Tender is accepted will be required to provide a satisfactory surety for the due performance of the Contract.

The Council does not bind itself to accept the lowest or any tender.

TREVOR L. WILLIAMS,
Clerk and Solicitor.

Imperial Buildings,
Regent-street,
Wrexham.
10th March, 1959.

COUNTY BOROUGH OF WALLASEY.

PROVISION OF CHANGING ROOM ACCOMMODATION.

LYNCROFT-ROAD PLAYING FIELDS.

TENDERS to reach the undersigned by 13th APRIL, 1959, are invited for the above mentioned work which comprises an extension to an existing timber building to form new shower bath and lavatory accommodation, together with drainage and other ancillary works.

Bills of Quantities and Form of Tender obtainable from the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

COUNTY BOROUGH OF WALLASEY.

EXTENSIVE ALTERATIONS, WALLASEY TECHNICAL COLLEGE.

TENDERS, to reach the undersigned by the 13th APRIL, 1959, are invited for the carrying out of extensive alterations and extensions at Wallasey Technical College, the construction of a 3-storey Science Block, extensions to a Workshop Block, together with other ancillary works including paths, roads, drainage, etc. Contractors desirous of tendering should make immediate application to the Borough Architect, Town Hall, Wallasey, and Bills of Quantities and Form of Tender will be forwarded as soon as they are available.

A. G. HARRISON,
Town Clerk.

COUNTY BOROUGH OF WALLASEY.

ERECTION OF 3-STOREY FLATS.

TENDERS to reach the undersigned by 6th APRIL, 1959, are invited for the ERECTION OF 1 BLOCK OF 3-STOREY FLATS CONTAINING 9 UNITS OF ACCOMMODATION at New-street, Wallasey. Bills of Quantities and Form of Tender obtainable from the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

PROPOSED OLD PEOPLE'S HOME, WHITTINGHAM AVENUE.

The Council invites applications from Building Contractors who wish to TENDER for the above Works which comprise the ERECTION of a TWO-STOREY OLD PEOPLE'S HOME of about 15,800 ft. super. of brick construction and tiled pitch roof, and works incidental thereto.

Such applications must be received by the Borough Architect, 30 Alexandra-street, Southend-on-Sea, by 10 a.m., WEDNESDAY, 1st APRIL, 1959, together with details of similar works previously undertaken and names of Architects from whom references may be obtained. From such applications a selected list of tenderers will be made, and those selected will be notified and will be required to make a payment of a deposit of £2 0s.

Upon receipt of this deposit, the Bills of Quantities and Form of Tender will be forwarded, and it is anticipated that these will be available at the middle of MAY, 1959. The deposit of £2 0s. will be refunded on receipt of a bona fide tender OR the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any tender.

ARCHIBALD GLEN,
Town Clerk.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

PROPOSED ALTERATIONS AND ADDITIONS TO GLENHURST COTTAGE TO FORM NEW OCCUPATION CENTRE, SOUTHCHURCH-ROAD.

The Council invites applications from Building Contractors who wish to TENDER for the above Works which comprise the ERECTION of SINGLE-STOREY CLASSROOM EXTENSIONS of about 2,500 ft. super, ALTERATIONS to the existing building, and works incidental thereto.

Such applications must be received by the Borough Architect, 30 Alexandra-street, Southend-on-Sea, by 10 a.m., WEDNESDAY, 1st APRIL, 1959, together with details of similar works previously undertaken and names of Architects from whom references may be obtained. From such applications a selected list of tenderers will be made, and those selected will be notified and will be required to make a payment of a deposit of £2 0s.

Upon receipt of this deposit, the Bills of Quantities and Form of Tender will be forwarded, and it is anticipated that these will be available at the beginning of MAY, 1959. The deposit of £2 0s. will be refunded on receipt of a bona fide tender OR the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any tender.

ARCHIBALD GLEN,
Town Clerk.

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

TENDERS are invited for the ERECTION OF A FOUR-BAY FIRE STATION, DRILL TOWER AND STATION OFFICER'S HOUSE at Bridlington.

Tender documents will be available on 23rd March, 1959, and application should be made to the County Architect, County Hall, Beverley, accompanied by a deposit of £2 0s. 0d. Cheques to be made payable to the County Treasurer.

No Tender will be considered unless received by the undersigned not later than 4 p.m. on WEDNESDAY, 15th APRIL, 1959 in a plain sealed envelope supplied by the Council, endorsed "Tender—Bridlington Fire Station"—and which shall not bear any name or mark indicating the sender.

THOMAS STEPHENSON,
Clerk of the Council.

METROPOLITAN BOROUGH OF STEPNEY.

MARTINEAU-STREET HOUSING SCHEME.

TENDERS are invited for the ERECTION OF TWO SIX-STOREY BLOCKS (62 dwellings) and ONE FOUR-STOREY BLOCK (13 dwellings).

Forms of Tender, with conditions, etc., obtainable from the Architects, Messrs. Howes & Jackman, 1, Verulam Buildings, Grays Inn, W.C.1, upon payment of a deposit of Ten Guineas.

Closing date for Tenders—3 p.m., 20th APRIL, 1959.

WILFRED REEVE,
Town Clerk.

DURHAM COUNTY COUNCIL.

TENDERS invited.

South Moor Greenland County School —RENEWAL OF WOOD FLOORS.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

CITY OF SALFORD.

PROPOSED PUBLIC CONVENIENCES AT VICTORIA BUS STATION, SALFORD.

FIRM-PRICE TENDERS are invited for the CONSTRUCTION of PUBLIC CONVENIENCES at Victoria Bus Station, Chapel-street, Salford, 3.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm-Price Tender obtained from, the City Engineer and Surveyor's Department, Town Hall, Salford, 3, upon payment of a deposit of £2 2s., which will be returned on submission of a bona fide Firm-Price Tender not subsequently withdrawn.

Firm-Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 12 noon on THURSDAY, 9th APRIL, 1959.

The Council does not bind itself to accept the lowest or any Firm-Price Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

COUNTY BOROUGH OF WALLASEY.

PROVISION OF CHANGING ROOM ACCOMMODATION.

WALLASEY GRAMMAR SCHOOL PLAYING FIELDS—TWICKENHAM DRIVE, LEASOWE.

TENDERS to reach the undersigned by 13th APRIL, 1959, are invited for the above-mentioned work which comprises an extension to an existing timber building to form new shower bath and lavatory accommodation, together with drainage and other ancillary works.

Bills of Quantities and Form of Tender obtainable from the Borough Architect, Town Hall, Wallasey.

A. C. HARRISON,
Town Clerk.

CHADDERTON URBAN DISTRICT COUNCIL.

SOUTH CHADDERTON LIBRARY—PROPOSED EXTENSIONS.

FIXED PRICE TENDERS are invited for proposed EXTENSIONS to the South Chadderton Library.

Specifications, Bills of Quantities, Form of Tender, etc., may be obtained from the Engineer and Surveyor, Town Hall, Chadderton, on or after THURSDAY, 26th MARCH, 1959, on payment of a deposit of £2 2s. which will be refunded on receipt of a bona fide tender.

Drawings etc., may be inspected at the office of the Engineer and Surveyor, Town Hall, Chadderton, during normal office hours.

Tenders, in plain sealed envelopes endorsed "Tender for Library Extension" to be received by the undersigned by FRIDAY, 17th APRIL, 1959.

L. STOTT,
Clerk of the Council.

Town Hall,
Chadderton,
Lancs.
10th March, 1959.

WELWYN GARDEN CITY URBAN DISTRICT COUNCIL.

EXTERNAL REDECORATION OF COUNCIL HOUSES.

HOUSING SCHEME No. 2 (93 Dwellings).
HOUSING SCHEME No. 8 (84 Dwellings).

TENDERS are invited for the EXTERNAL REDECORATION of either or both of the above schemes.

Copies of the specification may be obtained from the Housing Manager, Council Offices, Welwyn Garden City.

Completed tenders must be delivered to the undersigned in sealed envelopes marked "External Redecoration," not later than 12 noon on MONDAY, 13th APRIL, 1959.

The Council does not bind itself to accept the lowest or any tender.

L. J. SLOCOMBE,
Clerk of the Council.

Council Offices,
Welwyn Garden City.
14th March, 1959.

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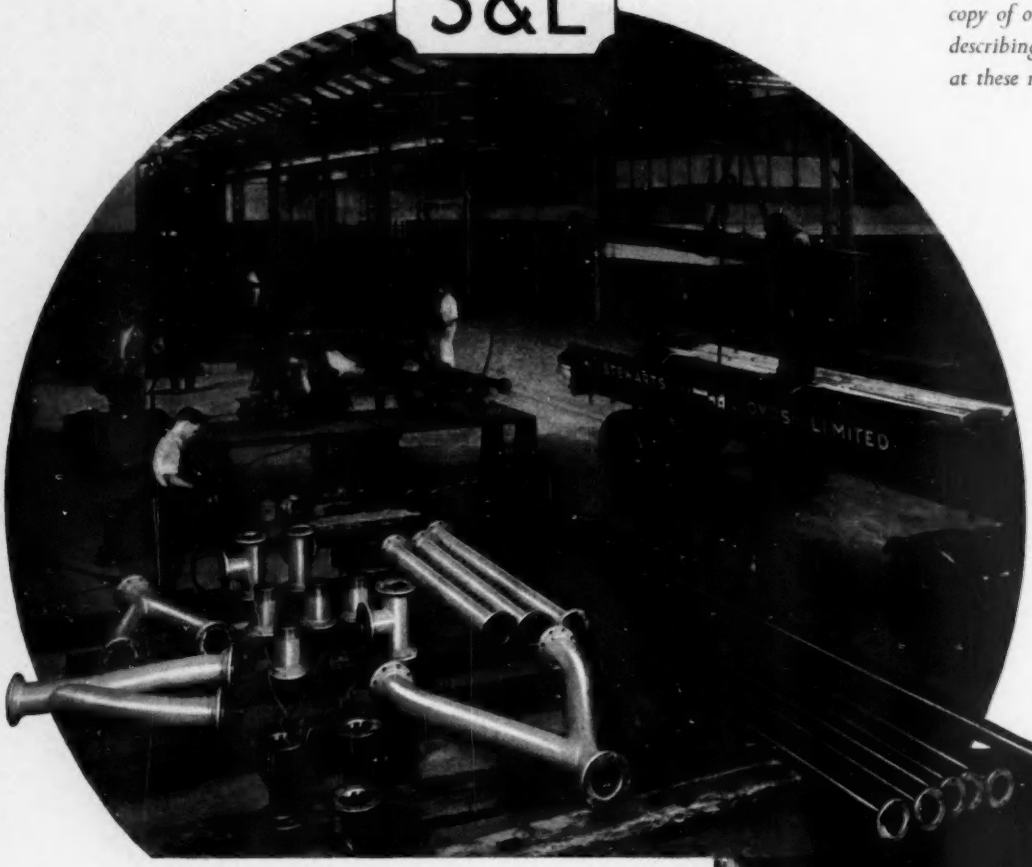

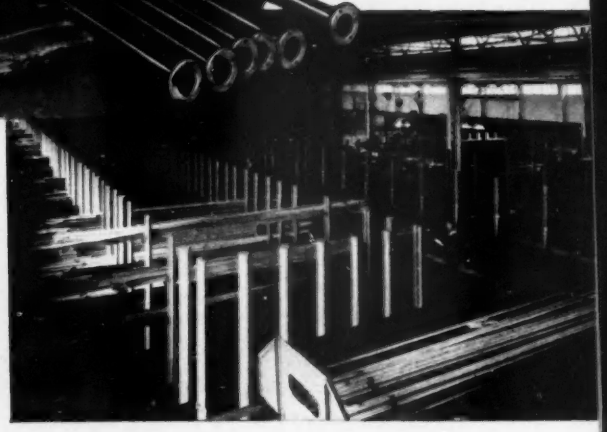

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SITTINGBOURNE AND MILTON URBAN DISTRICT COUNCIL.

DEVELOPMENT OF PLOT 15—CANTERBURY-ROAD HOUSING ESTATE.

ERECTION OF 88 HOUSES.

FIXED PRICE TENDERS are invited for the ERECTION OF 88 TRADITIONAL HOUSES comprising "P" and "N" types, on the above estate.

The development is divided into two parts of 48 and 40 houses and contractors are invited to tender for either part or the total number of 88.

Applications for Bills of Quantities and other contract documents together with a deposit of £3 3s. 0d. which will be refunded on receipt of a bona fide tender not subsequently withdrawn, must be made to the Engineer and Surveyor, "Lydbrook," 89 London-road, Sittingbourne, where House and Site Plans and form of Contract may be inspected during normal office hours. The contract documents will be available on 20th March, 1959.

Sealed Tenders in plain envelopes endorsed "Plot 15—Erection of Houses," must be received by the undersigned not later than 10 a.m. on MONDAY, 13th APRIL, 1959.

The Council does not bind itself to accept the lowest or any Tender.

D. ALLEN,
Clerk of the Council.

Council Offices,
76 High-street,
Sittingbourne.
12 March 1959.

PUBLIC APPOINTMENTS

THE DIRECTORATE OF WORKS, WAR OFFICE

(Director-General, Mr. Donald E. Gibson, C.B.E., D.C.L., F.R.I.B.A., M.T.P.I.) requires qualified ASSISTANT ARCHITECTS, as JOB ARCHITECTS at Chessington, Surrey. The opportunity occurs of joining an expanding organisation formed to take over design and supervision of all the Army's new building work, at home and overseas. Buildings include Barracks, Clubs, Hostels, Schools, Hospitals, Houses, Messes, Gymnasia, Churches, Buildings for further education and many others. Not only will Job Architects enjoy full architectural executive responsibilities, but will have opportunity of undertaking original research and development work on functional and structural problems under the Development Group. Opportunities for Establishment and promotion, and service on short tours abroad with generous allowances. Salaries within the range £830-£1,300 (men) and £830-£1,260 (women). (Equal pay by 1961.) Forms from M.L.N.S., Technical and Scientific Register (K), 26 King-street, London, S.W.1, quoting J271/8.

SALOP COUNTY ARCHITECT'S DEPARTMENT.

There are vacancies in the Department for ASSISTANT QUANTITY SURVEYORS on A.P.T. Grade II (£725 to £845 p.a.). R.I.C.S. Intermediate qualification or equivalent required in accordance with N.J.C. Conditions of Service which apply to the appointment.

Monthly rail fare and subsistence allowance of 30s. a week will be paid for a maximum period of six months to a married man temporarily separated from his family.

Conditions of Service and application forms obtainable from RALPH CROWE, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London-road, Shrewsbury. Closing date 10th APRIL, 1959.

ESSEX.

SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART,
Forest-road, Walthamstow, E.17.

Applications are invited for the following posts to commence on 1st SEPTEMBER, 1959, in the Architecture and Building Department:—

ASSISTANT LECTURER (Grade B), to teach Structural Engineering subjects in the Building and Civil Engineering Sandwich Course and Higher National Certificate Courses. Candidates should have a degree or an equivalent professional qualification.

ASSISTANT LECTURER (Grade B), to teach Building Science and Mathematics in the National Certificate and Building and Civil Engineering Courses. Candidates should have a degree or an equivalent professional qualification.

Salary £650 x £25 to £1,025 with additions for degree (or equivalent), approved training, London allowance, and the 5 per cent. special increase. Increments within scale for previous teaching service, approved industrial experience and War/National Service.

Applications (no forms supplied) giving particulars of qualifications, training and experience, with three recent testimonials, or giving the names and addresses of three referees, to the Clerk to the Governors at the College.

WESSEX REGIONAL HOSPITAL BOARD.

This is a new Regional Hospital Board which will function from the 1st APRIL, 1959. The Board invites applications for the post of REGIONAL ARCHITECT. Salary scale under consideration by the Whitley Council. Applicants must be Registered Architects and Fellows of or Associate Members of The Royal Institute of British Architects and have had considerable experience both of design and the administration of architectural practice, especially in hospital work. The person appointed will be required to advise the Board on architectural matters relating to hospitals in the region and will be responsible for the working of the Architects' Department.

The post is superannuable and subject to Whitley Council terms and conditions. Applications (5 copies) including the names and addresses of 3 referees should be sent to the Chairman of the Board at "Highcroft," Romsey-road, Winchester, not later than 11th APRIL, 1959. The envelope should be endorsed "Regional Architect."

BOROUGH OF CHESTERFIELD, WORKS DEPARTMENT.

Applications invited for position of WORKS MANAGER. Salary in accordance with Grade "C" of the National Scheme of Conditions of Service, for Chief Officers, i.e. £1,385 per annum rising to £1,620 per annum by 3 annual increments of £60 and one of £55.

Duties will include building maintenance of Corporation properties and the building of houses by direct labour. Candidates must have initiative, good organising ability, experience in all sections of the building industry, be competent to take off quantities and prepare estimates, a knowledge of present-day purchasing, and experience in control of workmen. Previous experience in similar work with a Local Authority would be an advantage.

Applications in writing, giving age, full particulars of experience and names of three referees to Town Clerk, Town Hall, Chesterfield, in sealed envelope marked "Appointment of Works Manager," not later than 31st MARCH, 1959.

RICHARD CLEGG,
Town Clerk.

20th March, 1959.

BOROUGH OF RICHMOND (SURREY).

BUILDING SURVEYOR (MAINTENANCE).

Applications are invited for the above appointment on the established staff of the Borough Engineer and Surveyor at a salary in accordance with the Special Grade (£750 x £40—£1,030 p.a. plus London Weighting).

The duties will comprise the maintenance of public buildings and Council-owned estates.

Applicants must have passed the Final Examination of the Royal Institution of Chartered Surveyors.

Applications giving particulars of age, qualifications, and experience, and the names of two referees should be sent to the Borough Engineer and Surveyor, Hotham House, Heron Court, Richmond, by 4th APRIL, 1959. Canvassing will disqualify. Relationship, if any, to members of the Council or Senior Officers must be stated. No assistance with housing.

CLIFFORD HEYWORTH,
Town Clerk.

BUCKS COUNTY COUNCIL.

Applications are invited for the appointment of a BUILDING MAINTENANCE SURVEYOR in the County Architect's Department. Salary A.P.T. II, £725-£845 p.a.

Applicants should have a sound knowledge of all building trades and have had considerable experience in a similar capacity preferably with a local authority.

The appointment is superannuable and subject to medical examination.

A weekly allowance of 25s. 0d. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by 11th APRIL, 1959.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury.

COUNTY BOROUGH OF CROYDON.

TEMPORARY CLERK OF WORKS.

Applications are invited for this appointment from persons accustomed to housing contracts, including multi-storey flats. Salary £15 4s. per week, or £15 14s. if holding an approved qualification. Applications on forms obtained from the Borough Engineer, Town Hall, Croydon. Closing date 7th APRIL, 1959.

E. TABERNER,
Town Clerk.

HUYTON - WITH - RODY URBAN DISTRICT COUNCIL.

Applications are invited for the following appointments:—

(a) JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. I. Salary £557 to £725.

(b) ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. III. Salary £845 to £1,025.

Applicants for (b) should be suitably qualified, and should have had sound experience in preparing Bills of Quantities, Interim Valuations and Final Accounts for housing and other building works.

Applications stating age, experience, present position, together with the names of two referees must be sent to the Architect and Housing Director, Architectural and Housing Department "Grasscroft," Archway-road, Huyton by the 31st MARCH, 1959.

D. WILLGOOSE,
Clerk to the Council.

CITY OF CAMBRIDGE.

ASSISTANT ARCHITECT
(Special Grade £750-£1,030).

Applications are invited for this superannuated post in the Architects' Section of the City Surveyor's Department.

Applicants must have passed Parts I and II of R.I.B.A. Final or Special Final Examination or equivalent and entry point on the Grade will depend on experience which should be at least five years.

Application forms from the City Surveyor, The Guildhall, Cambridge, returnable by 10th APRIL, 1959. The Council may consider the provision of housing accommodation.

ALAN H. I. SWIFT,
Town Clerk.

The Guildhall,
Cambridge.

CITY OF SHEFFIELD.

CITY ARCHITECT'S DEPARTMENT.

ARCHITECTS wanted urgently to augment the group working on the second part of the Park Hill Redevelopment Scheme. This part includes 1,144 dwellings in blocks up to 18 storeys in height together with shops, public houses, garages, factory and clubrooms all integral with the dwellings structure. The site is a hilltop overlooking the city centre. The whole contract will be let this year.

Salary: 1 post, Grade A.P.T. IV, £1,025-£1,175. 2 posts, Special Classes, £750-£1,030.

Applications stating age, education and training, qualifications, present and past appointments (with dates and salaries), experience, and the names of two persons to whom reference may be made should reach me not later than MONDAY, 6th APRIL, 1959.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

HAMPSHIRE COUNTY COUNCIL.

ARCHITECTURAL ASSISTANT (Special Scale £750-£1,030) Required for pensionable post in County Architect's Department. Candidates must have passed Parts I and II of the R.I.B.A. Final Examination, or equivalent, and have had at least five years' experience (including the period spent in theoretical training). The commencing salary will be determined by experience and ability. Assistance given with removal and other expenses in approved cases.

Application forms (send S.A.E.), returnable by 3rd APRIL, from the Clerk of the County Council, The Castle, Winchester.

ESSEX COUNTY COUNCIL.

Applications invited from men for post of CIVIL DEFENCE RESCUE INSTRUCTOR on temporary staff. Person appointed will be charged with duties of instructing volunteers and other potential instructors. Candidates should be experienced in instructional work and be in possession of a Rescue Instructor's Certificate from a Home Office Civil Defence Technical Training School. Salary according to qualifications and experience, but not exceeding £725 a year. National A.P.T. & C. Scheme of Conditions of Service as applied to temporary staff. Medical examination. Person appointed required to undertake evening and week-end duty. Canvassing forbidden. Applications in own handwriting should be addressed to County Clerk, County Hall, Chelmsford, as soon as possible, stating particulars of age, education, qualifications and experience and the names and addresses of three referees.

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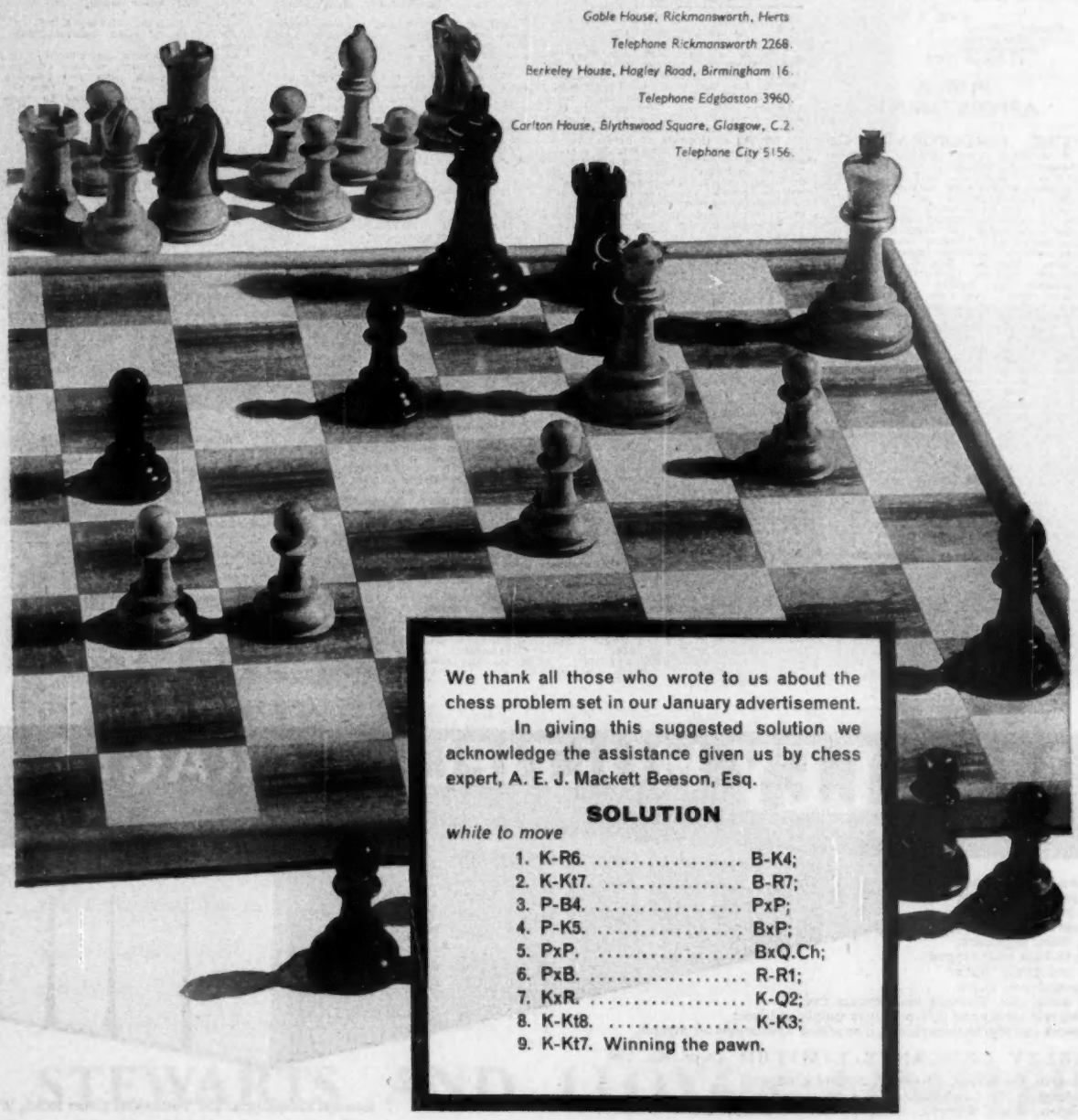

We thank all those who wrote to us about the chess problem set in our January advertisement.

In giving this suggested solution we acknowledge the assistance given us by chess expert, A. E. J. Mackett Beeson, Esq.

SOLUTION

white to move

1. K-R6. ..... B-K4;
2. K-Kt7. ..... B-R7;
3. P-B4. ..... PxP;
4. P-K5. ..... BxP;
5. PxP. ..... BxQ.Ch;
6. PxB. R-R1;
7. KxR. K-Q2;
8. K-Kt8. ..... K-K3;
9. K-Kt7. Winning the pawn.

LONDON COUNTY COUNCIL.

ARCHITECTS, Grade III (up to £1,090) and ARCHITECTURAL ASSISTANTS (up to £860) required for maintenance and restoration work on historical buildings owned by Council. Candidates should have knowledge of historical architectural detail and special interest in the work. Experience in maintenance of buildings an advantage. Starting salaries according to qualifications and experience.

Particulars and application form, returnable by 3rd APRIL, from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/29/59, County Hall, S.E.1. (552)

CITY AND COUNTY OF THE CITY OF EXETER.

CITY ARCHITECT'S DEPARTMENT.

Vacancy on established staff for ARCHITECTURAL ASSISTANT, salary A.P.T. Grade II (£725-£845 per annum).

Applicants must have passed the Intermediate R.I.B.A. Examination.

The appointment is subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts 1937 and 1953. The successful applicant will be required to pass a medical examination.

Applications stating age, qualifications, previous and present appointments and salaries, full details of experience and earliest possible date when available, should be sent to the City Architect, Municipal Offices, Exeter, not later than the 28th MARCH, 1959.

LEEDS REGIONAL HOSPITAL BOARD.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS. Salary scale £730/£1,055 per annum. Commencing salary dependent upon relevant practical experience, but the additional increments granted will not be more than the number of years by which the officer's age exceeds 23.

Applicants must be Associate Members of the R.I.B.A.

(b) ARCHITECTURAL ASSISTANTS. Salary scale £545/£765 per annum.

Applicants must have passed the Intermediate Examination of the R.I.B.A. and have had a sound architectural training and some experience in a practising architect's office is essential.

The above appointments offer excellent opportunities to Architects to design and construct a wide range of Hospital Buildings, including Nurses' Homes, Houses, Flats, Kitchens, Laundries and Boiler Houses. The Service is an expanding one and many new Hospital projects are to be built in the immediate future.

Applications, giving age, experience and the names of two referees, to the Secretary, Park Parade, Harrogate by not later than 31st MARCH, 1959.

NATIONAL COAL BOARD, EAST MIDLANDS DIVISION.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above post in the Divisional Architect's Department, 69 Lower Parliament-street, Nottingham.

The appointment will be made in the scale of £715 x £25—£850 (exceptionally £1,000) *or* £595 x £25—£710, according to qualifications and experience. For the higher scale, Intermediate R.I.B.A. with three years subsequent practical experience will normally be expected. The post is superannuable.

The architectural work of the department covers the design of colliery surface buildings of all types, including workshops, stores, power plants, offices, pit-head baths, canteens, medical centres, and recreation buildings.

Applications giving age and full details of education, qualifications and present appointment and salary to Divisional Chief Staff Officer, N.C.B., East Midlands Division, Sherwood Lodge, Arnold, Nottingham. Please quote S.V. 969/R.

EAST SUFFOLK COUNTY COUNCIL. ASSISTANT ARCHITECTS.

A.P.T. GRADE IV: £1,025 x £50-£1,175.

Applications are invited from qualified ARCHITECTS who have good general experience in design and construction, and are capable of taking charge of large projects with the minimum of supervision.

The starting salary in each case will be fixed according to qualifications and experience, and removal expenses will be paid in approved cases. The appointments are subject to the provisions of the Superannuation Acts and selected candidates will be required to pass a medical examination.

The posts offer interesting and responsible work in connection with the Council's extensive programme of school and other building.

Applications, stating age, qualifications, experience and present employment, together with copies of two recent testimonials, must be delivered to the County Architect, Mr. E. J. Symcox, F.R.I.B.A., County Hall, Ipswich, by the 31st MARCH, 1959.

EASTERN ELECTRICITY BOARD. CHILTERNS SUB-AREA.

SENIOR DRAUGHTSMAN—SUB-AREA HEADQUARTERS.

Candidates should have had a good technical training and preferably experience in an Architect's office. They should be capable of preparing detailed drawings and specifications of building and civil engineering work, including sub-stations, service centres, workshops and offices.

The successful candidate will be required to supervise staff engaged on the preparation of drawings, be capable of the design of simple reinforced concrete structures and be able to carry out site surveys.

Salary: N.J.B. Schedule D, Grade 5 (£790-£890).

Apply by letter by 27th MARCH, 1959, to the Manager, Chilterns Sub-Area, Eastern Electricity Board, Prebend-street, Bedford.

COUNTY BOROUGH OF SUNDERLAND.

PUBLIC WORKS DEPARTMENT.

SMALL CONTRACTS ASSISTANT (BUILDING).

GRADE A.P.T. II (£725-£845 p.a.). Commencing salary according to qualifications and experience.

Applicants must be experienced in the construction and supervision of competitive building contracts up to £30,000 in value, and be capable of estimating for and supervising minor building maintenance projects.

Further particulars and forms of application from The Public Works Manager, 1 and 3, Otto-terrace, Sunderland.

Applications must be addressed to me and received at my office, Town Hall, by FRIDAY, 3rd APRIL, 1959.

G. S. McINTIRE, Town Clerk.

BOROUGH OF ACTON.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of JUNIOR BUILDING INSPECTOR, A.P.T. Grade I (£575-£725 p.a. plus London allowance). Applicants must have had a good education and have a knowledge of Building Construction.

The commencing salary will be fixed according to age, qualifications and experience. The Council has adopted a five-day working week.

Applications stating age, qualifications, experience and the names of two referees should be sent to the Borough Engineer, Town Hall, Acton, W.3, by 6th APRIL, 1959.

NORTH RIDING EDUCATION COMMITTEE.

ASSISTANT ARCHITECT Required in Education Architect's Department. Grade A.P.T. II and Special. Salary £725 to £1,030. A.R.I.B.A. required. Previous experience may be taken into account in fixing commencing salary and experience with Local Authority not essential. Car, travelling and subsistence allowances. Local Government Superannuation Act. Canvassing disqualifies. Closing date for completed applications 11th APRIL, 1959.

Application form and further particulars from F. BARRACLOUGH, County Hall, Northallerton.

PADDINGTON BOROUGH COUNCIL.

Require BUILDING SURVEYING ASSISTANT (A.P.T. I, £605-£755 per annum).

Candidates should have practical knowledge of building construction, experience in surveying and levelling, the repair, adaptation and conversion of civic and residential properties, and be capable of preparing plans, specifications and estimates of costs in respect of those works and their supervision. Candidates preferred at advanced stage of preparation for R.I.C.S. Intermediate or equivalent examination. Written applications stating age, qualifications, experience and names and addresses of three referees should reach the undersigned (quoting A.402) by 1st APRIL, 1959.

W. H. BENTLEY, Town Clerk.

Town Hall, Paddington Green, W.2.

BUCKS COUNTY COUNCIL.

Applications are invited for the APPOINTMENT OF AN ASSISTANT ARCHITECT in the County Architect's Department on the Architects' Special Scale, £750 x £40 (7)—£1,030 p.a.

The appointment is superannuable and subject to medical examination.

A weekly allowance of 25s. 0d. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by the 31st March, 1959.

F. B. POOLEY, County Architect.

County Offices, Aylesbury.

BEDFORDSHIRE COUNTY COUNCIL

invite applications from qualified ARCHITECTS for posts in County Architect's Dept. which has a programme of varied and interesting jobs, including Colleges, Civic buildings and new buildings for the various County services. Salary £750-£1,030. Application forms from County Architect, Shire Hall, Bedford, to be returned by 4th APRIL.

SOUTH-EAST METROPOLITAN REGIONAL HOSPITAL BOARD.

Applications are invited for posts of ASSISTANT ARCHITECTS. Superannuable and National Health Service conditions. Applicants must be A.R.I.B.A. or equivalent and will either assist senior architects on larger proposals or be responsible themselves for smaller projects. They should be capable of preparing sketch plans, working drawings and specifications. The work covers the whole range of General and Specialised Hospitals and Mental establishments and experience of hospital work will be an advantage though not essential. The salary is within the range £750-£1,105 per annum.

More detailed information can be obtained from the Regional Architect, but applications stating age, qualifications and experience with names of two referees should be made to the Secretary, 40 Eastbourne-terrace, W.2, not later than 4th APRIL.

CITY OF WINCHESTER.

Applications are invited for the appointment of ASSISTANT CLERK OF WORKS on the Council's Housing Schemes. Weekly wage of £14 and possibility of superannuation. Applications in writing to City Engineer, Guildhall, Winchester, with the names of two referees, not later than MONDAY, 20th APRIL, 1959.

HUNTINGDONSHIRE EDUCATION COMMITTEE.

TEMPORARY CLERK OF WORKS.

Applications are invited for the appointment of a temporary CLERK OF WORKS for a period of approximately two years in connection with educational building. Salary Scale Grade A.P.T. II (£725-£845).

Applicants should be thoroughly experienced in the duties of Clerk of Works for large building contracts.

Further details and application forms may be obtained from S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon, to whom completed application forms should be returned by MONDAY, 6th APRIL, 1959.

A. C. AYLWARD, Clerk of the County Council.

County Buildings, Huntingdon.

ELSTREE RURAL DISTRICT COUNCIL.

APPOINTMENT OF BUILDING INSPECTOR.

Applications are invited for the above appointment. Salary Grade A.P.T. I, plus London Weighting.

The officer appointed will be required to provide and maintain a motor car, for which an allowance of £190 per annum will be paid.

Candidates should hold the Building Inspectors' Certificate of the Institution of Municipal Engineers or its equivalent.

The successful candidate, if married, will be offered housing accommodation, if desired.

The appointment will be subject to the National Scheme of Conditions of Service: the provisions of the Local Government Superannuation Acts, 1937-1953 and will be determinable by one month's notice, in writing, on either side. The successful candidate will be required to pass a medical examination.

Relationship to any Member or Officer of the Council must be disclosed and canvassing directly or indirectly will disqualify.

Applications stating age, qualifications and experience, together with the names and addresses of two referees, should be sent in an envelope endorsed "Building Inspector" so as to reach the Engineer and Surveyor at these offices not later than FRIDAY, the 3rd APRIL, 1959.

A. LANCASHIRE, Clerk of the Council.

Council Offices, Shenley-road, Borehamwood, Herts.

9th March, 1959.

COUNTY BOROUGH OF WALLASEY.

APPOINTMENT OF TOWN PLANNING ASSISTANT.

Applications invited from persons with suitable experience for the above appointment in the Borough Surveyor's Department at a salary in accordance with the Special Grade, £750 x £40—£1,030 per annum. Housing accommodation. Application Forms, which must be returned by MONDAY, 20th APRIL, 1959, may be obtained from the Borough Engineer and Surveyor, Town Hall, Wallasey.

A. G. HARRISON, Town Clerk.

CITY OF SALFORD.

DIRECT WORKS DEPARTMENT.

Applications are invited from suitable qualified persons for the following appointments in the above Department:—

(a) BUILDING SUPERINTENDENT. Grade A.P.T. V. Salary £1,175 to £1,325 per annum.

Applicants must have had considerable experience in all types of new building work, and possess the ability to direct and control assistants on various contracts.

The Building Superintendent will be responsible to the General Manager for the control of all Site organisation and all aspects of construction on new building contracts of public buildings, houses and multi-storey flats.

The successful candidate must be competent to handle a staff of some 300 men, use of heavy plant, and ensure adequate supplies of materials and, in addition, supervise and control sub-contractors. He must also be capable of setting out, levelling, and the preparation of progress reports.

Previous experience with a Local Authority is not essential, but experience as a Contracts Manager with a large Building Contractor would be advantageous. A good knowledge of cost control, incentive payments and modern Site organisation is essential.

Housing accommodation may be considered in approved circumstances.

(b) MAINTENANCE SUPERINTENDENT. Grade A.P.T. III. Salary £845 to £1,025 per annum.

Applicants must have had considerable experience in the building trade and must be capable of administrating and supervising the Maintenance Section of the Department. This Section employs 300 men engaged upon the maintenance of all Council properties, including Public Buildings, Houses, Schools, Clinics, etc., and, in addition, he will be required to supervise the construction of very small new buildings.

The person appointed must be capable of preparing details of labour, etc., for estimate purposes, have a knowledge of incentive payments as a comprehensive bonus system is operated on various classes of work. Previous experience with a Local Authority is not essential but experience with a large Maintenance Organisation will be an advantage, as will some experience of the control of building trade workshops.

Housing accommodation may be considered in approved circumstances.

(c) TECHNICAL ASSISTANT (Electrical and Heating). Grade A.P.T. II-III. Salary £725 to £1,025 per annum.

Applicants must have had considerable experience in the preparation of estimates for electrical and heating contracting, together with the preparation of specifications for minor alterations and adaptations. Preference will be given to persons holding suitable qualifications, e.g. A.M.I.H. and A.M.I.E.E.

Housing accommodation may be considered in approved circumstances.

(d) JUNIOR QUANTITY SURVEYOR'S ASSISTANT. Grade A.P.T. I. Salary £575 to £725 per annum.

Applicants for this post must have had some experience in the preparation of schedules of materials and measuring for all classes of building contract work. Previous experience in a Building Contractor's office would be an advantage, and preferably applicants should hold the interim certificate of the Building Surveyor's Institute or the R.I.C.S.

(e) TRACING ASSISTANT. Grade Miscellaneous III. Salary £505 to £565 per annum.

Applicants for this post must have had experience in a Building Contractor's Surveyor's office and be capable of taking tracings from original drawings and also have assisted generally in a Building Surveyor's office.

All these posts are Superannuable and subject to a Medical Examination.

Applications for all posts, giving details of present and previous appointments, qualifications and experience, together with the names and addresses of two referees, should be sent to the General Manager, Direct Works Department, Unwin-street, Cross-lane, Salford, 5, so as to be received not later than 10 a.m. on MONDAY, 30th MARCH, 1959.

R. RIBBLESDALE THORNTON, Town Clerk.

CITY OF PLYMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of:—

(a) Two ASSISTANT ARCHITECTS (Special Scales £750 x £40-£1,030);

(b) Three ASSISTANT ARCHITECTS, Grade A.P.T. I (£575-£725).

Applicants for (a) must be Registered Architects, and (b) must have passed the Intermediate R.I.B.A. examination and preference will be given to members of the R.I.B.A.

Application forms obtainable from the City Architect, Seymour-road, Plymouth, accompanied by copies of not more than three recent testimonials and/or names of persons to whom reference may be made, returnable not later than the 27th MARCH, 1959.

'Well, the Esso people have certainly given us something to think about...'

VISIT STAND No. 54 YOURSELF!
There's a lot to interest builders on Stand No. 54 at the Ideal Home Exhibition. This is the Esso Home Heating Stand. On show: the latest types of equipment. And ready to answer all your queries: Esso Home Heating experts, who can give you the benefit of their specialised oil-heating experience.

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Oil-fired central heating offers many advantages to architects and builders. It meets the modern trend towards open planning and allows greater flexibility in design. And it certainly helps to sell houses. More and more builders are installing oil-fired central heating as a matter of course. For today's home-buyers *expect* modern houses to have modern heating.

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Esso **HOME HEATING OILS**

—the modern way to heat homes

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LAMBETH BOROUGH COUNCIL.

Applications invited from ARCHITECTS for housing work, including extensive conversion programme.

Senior applicants, qualified with good experience, capable of working with little supervision. Salary according to qualifications, up to £1,055.

Junior assistants, £755 to £875.

Full details to Town Clerk, Lambeth Town Hall, Brixton Hill, S.W.2, by 31st MARCH.

COUNTY BOROUGH OF READING.

READING TECHNICAL COLLEGE.

Applications are invited for the following full-time teaching posts from September next:—

DEPARTMENT OF BUILDING.

GRADE B ASSISTANT, qualified to teach Building Construction and other subjects in O.N.D. and H.N.C. courses. Salary (basic) £650 x £25—£1,025 plus 5 per cent. with additions for qualifications, etc.

Application forms (returnable by 3rd APRIL) and further particulars (state which post) obtainable from the Principal, Reading Technical College, King's-road, Reading.

AIR MINISTRY WORKS

Design Branch Requires in London. CIVIL ENGINEERING DESIGNER DRAUGHTSMEN experienced in one or more of the following branches of engineering: (a) Earthworks and Stormwater Drainage; (b) Foul drainage and small disposal works: (c) Water pumping and distribution. Salaries up to £1,055 p.a. Starting pay dependent on age, quals. and exp. Long term possibilities with promotion and pensionable prospects. Five-day week, three weeks' three days' leave a year. Liability for overseas service. Normally natural born British subject.

Write stating age, quals., employment details including type of work done to any employment exchange quoting Order No. Borough 252.

DORKING URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT

Grade A.P.T. II (£725-£845).

Applications are invited for the above appointment. Candidates must have had previous architectural experience.

Application form and particulars of the appointment may be obtained from the Engineer and Surveyor, to whom applications must be sent by 4th APRIL, 1959.

F. G. SUTHERLAND,
Clerk of the Council.

Pippbrook,
Dorking.
Surrey.
10th March, 1959.

BIRMINGHAM REGIONAL HOSPITAL BOARD.

SENIOR ASSISTANT ARCHITECTS required, £1,050 to £1,245 per annum. Applicants must be registered architects having passed the requisite examinations. Experience of hospital planning and construction an advantage. Ability to control drawing-office staff essential. Superannuable. Apply giving details of training, present appointment and previous experience and naming three referees to Secretary, 10 Augustus-road, Birmingham 15, by 31st MARCH.

URBAN DISTRICT COUNCIL OF URMSTON.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications invited for this appointment in the Engineer and Surveyor's Department. A.P.T. Grade II, £725-£845 per annum. Appointment subject to N.J.C. Conditions of Service and medical examination.

Applicants should have had experience in an Architect's or Surveyor's Department and be suitably qualified.

Provision of housing accommodation in suitable cases.

Application, stating age, qualifications and details of experience, together with the names and addresses of two referees, should be delivered to the undersigned not later than NOON on TUESDAY, 31st MARCH, 1959.

L. WATKINS,
Clerk of the Council.

Council Offices,
Crofts Bank-road,
Urmston.
5th March, 1959.

MIDDLESEX COUNTY COUNCIL.

CLERKS OF WORKS required at sites in Northwood, Sunbury, Hendon and Tottenham areas. Unestablished, superannuable. Salary range £665-£815. Prescribed conditions. Full particulars and two referees, to County Architect, 1 Queen Anne's Gate Buildings, Dartmouth-street, S.W.1, by 27th MARCH (quote Z304B).

SURREY COUNTY COUNCIL.

Applications invited for following appointments:—

1. ASSISTANT ARCHITECT, Grade IV, £1,025-£1,175 p.a. plus £30 p.a. London allowance. Must be A.R.I.B.A.

2. ASSISTANT ARCHITECT, GRADE II, £725-£845 p.a. plus £30 p.a. London Allowance. Must be of good general training, preference given those who have passed Inter. R.I.B.A.

4. ASSISTANT QUANTITY SURVEYOR, Grade IV, salary as (1) above. Must be Chartered Quantity Surveyor with experience of estimating, taking-off, valuing works in progress and final accounts for large public buildings, including all Specialist works.

4. ASSISTANT HEATING ENGINEER, Grade IV, salary as (1) above. A.M.I.H. and V.E. and experienced in heating and ventilating installations.

5. ASSISTANT ELECTRICAL ENGINEER, Special Grade, £750-£1,030 p.a. plus £30 p.a. London allowance. Must be A.M.I.E.E. and experienced in electrical services in buildings.

6. ASSISTANT STRUCTURAL ENGINEER, Special Grade, salary as (5) above. Qualified Civil or Structural Engineer, experienced in design and detailing in steel and/or reinforced concrete.

7. STRUCTURAL ENGINEERING ASSISTANT, Grade I, salary £575-£725 p.a. plus L.A. of up to £30 p.a. according to age. Knowledge of detail and some design in steel or concrete.

Full details, present salary and 3 copy testimonials to County Architect, County Hall, Kingston, as soon as possible.

BOROUGH OF TAUNTON.

ARCHITECTURAL ASSISTANT.

Applications are invited for appointment of ARCHITECTURAL ASSISTANT in the Housing Architect's Department, Grade A.P.T. II, £725-£845 per annum.

Superannuable post, subject to medical examination, and to National Conditions of Service. Applications, stating age, present position and salary, qualifications, experience and names of two referees, to be sent to C. Bacon, F.R.I.B.A., Housing Architect, Flook House, Station-road, Taunton, by 31st MARCH, 1959.

Canvassing will disqualify.

Consideration will be given to housing accommodation, if required.

K. A. HORNE,
Town Clerk.

BUILDING CLERKS OF WORKS.

REQUIRED BY MINISTRY OF WORKS.

For employment anywhere in the United Kingdom.

GENERAL CONDITIONS.

Salary range £720 (age 26) to £900 per annum in London (slightly less elsewhere). Starting point according to age, qualifications and experience. Five-day week. Three and a half weeks' annual leave initially. Prospects of promotion to posts with salaries of £1,065 and above. Opportunities for permanent posts leading to pensions, non-contributory.

QUALIFICATIONS.

Possession of O.N.C. (Building) or Final City and Guilds certificate, or equivalent. Craft apprenticeship essential and three years' experience as General Foreman or Clerk of Works.

APPLICATIONS.

State age, experience, training and qualifications to: The Chief Works Engineer, Ministry of Works (E), Room 435, Abell House, John Islip-street, London, S.W.1.

Interviews at Regional Offices when possible.

BOROUGH OF BROMLEY.

MAINTENANCE OFFICER.

Applications invited for above appointment. Salary A.P.T. I (£625-£755). Person appointed responsible for supervision of housing and building repairs and maintenance, and must be able to drive.

Applications stating age, experience and two referees must be received by Borough Engineer not later than 6th APRIL, 1959.

LIONEL KAYE,
Town Clerk.

Municipal Buildings,
BROMLEY,
Kent.
16th March, 1959.

EAST ANGLIAN REGIONAL HOSPITAL BOARD.

SENIOR ASSISTANT ARCHITECTS for work on major hospital development (estimated cost £2½m.) at Peterborough and District Memorial Hospital expected to last 3 to 4 years. Candidates must be registered architects and have had good general experience; hospital experience will be an advantage. Salary £1,050-£1,245.

Applications stating age, qualifications, experience and details of present position (salary, etc.) with names of three referees to Secretary of Board, 117 Chesterton-road, Cambridge, by 31st MARCH, 1959.

ASSISTANT QUANTITY SURVEYORS

£730 to £1,055 p.a. Starting salary according to age and experience. Final R.I.C.S. and experience in taking-off and preparing bills of quantities and settling final accounts essential. All appointments superannuable. Apply stating age and experience and naming three referees to Secretary, 10, Augustus-road, Birmingham 15, immediately.

ENGINEERING

ASSISTANT required by Hackney Borough Council. Grade A.P.T. I/II (£575-£845 p.a.). London Weighting allowance £30 p.a. at age 26. Commencing salary according to training, qualifications and experience. Apply Town Clerk, Town Hall, Hackney, E.8, for application form returnable by 9 a.m., 6th APRIL, 1959.

CITY OF LIVERPOOL.

EDUCATION COMMITTEE.

LIVERPOOL COLLEGE OF BUILDING.

Principal: T. E. Hall, Dip.Arch., A.R.I.B.A.

Applications are invited for the appointment of ASSISTANT (Grade "B") to teach General Building subjects in National Diploma and Certificate courses and courses leading to the examinations of the Institute of Builders in the Department of Building and Professional Studies, duties to commence 1st SEPTEMBER, 1959.

Salary (men), £650 x £25 to £1,025 per annum (plus 5 per cent.) (1956 Burnham Technical Scale.) To this scale additional graduate and training allowances, where applicable, will be paid. Increments up to a maximum of twelve may be allowed for professional or war service.

Applicants should hold a qualification of the Institute of Builders or an equivalent qualification in Building. Professional or industrial experience is essential and teaching experience desirable.

Further particulars and application form (returnable by 11th APRIL, 1959), from the Director of Education, 14 Sir Thomas-street, Liverpool, 1.

THOMAS ALKER,
Town Clerk and Clerk to the Local Education Authority.

(J 5570)

BOROUGH OF WATFORD.

Applications are invited for the appointment of MEASURING SURVEYOR on the unestablished staff at a salary in accordance with Grade A.P.T. I (£575-£725); commencing salary in accordance with experience. Duties comprise measuring and settlement of sub-contractors' and builders' small accounts and estimating for minor works.

Applications to the undersigned not later than 24th MARCH, 1959.

F. C. SAGE,
Borough Engineer.

Town Hall,
Watford.

COUNTY BOROUGH OF BURY.

Applications invited for APPOINTMENT OF ARCHITECTURAL ASSISTANT, Special Grade (£750-£1,030). Commencing salary according to qualifications and experience.

Applications stating age, details of training, qualifications, present and previous appointments and experience, together with names and addresses of two referees, must reach me by 13th APRIL, 1959.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.

BOGNOR REGIS URBAN DISTRICT COUNCIL.

CLERK OF WORKS.

Applications are invited for the above TEMPORARY APPOINTMENT in connection with the erection of a two-storey block of flats.

The building will be of contemporary design, of cross-wall construction with reinforced concrete floors.

The contract will be completed in approximately 12 months and the salary for the appointment is £17 per week.

Applications giving details of experience and the names of two persons to whom reference can be made should be addressed to the undersigned.

R. W. J. HILL,
Clerk of the Council.

Town Hall,
Bognor Regis.
16th March, 1959.

COUNTY BOROUGH OF STOCKPORT.

ASSISTANT ARCHITECT Required, Special Grade (£750-£1,030) or A.P.T. III (£845-£1,025) depending on qualifications. Commencing salary according to age and experience. Large programme of modern buildings.

Full particulars (age, experience, two referees) to Borough Architect, Town Hall, Stockport, by 4th April, 1959, stating if related to member/Senior Officer of Council. Post pensionable, subject to medical examination. Canvassing disqualifies.

MIDDLESEX COUNTY COUNCIL.

BUILDING SURVEYOR, initially in Maintenance Section, County Architect's Dept. A.P.T. I. £605-£755. Commencing salary according to qualifications and experience. Established and pensionable. 5-day week. Prescribed conditions. Application forms (s.a. f'scap e.) from County Architect, 1 Queen Anne's Gate Buildings, Dartmouth-st., S.W.1, by 8th APRIL (quote Z305B).

COUNTY BOROUGH OF WEST HAM.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications invited for following established posts:—

(a) DEPUTY GROUP ARCHITECT. Applicants must be A.R.I.B.A.

(b) ASSISTANT PLANNING OFFICER. Applicants must be A.M.T.P.I. or equivalent.

Salaries in accordance with Special Grade, £750 x £40-£1,030 and London Allowance.

(c) ARCHITECTURAL ASSISTANTS. Applicants must be Inter. R.I.B.A. Standard.

Salary A.P.T. Grade I, £575 x £30—£725 and London Allowance.

(Commencing point in Grade for all above appointments according to experience and qualifications.)

Application forms and details from Borough Architect and Planning Officer, 70, West Ham-lane, Stratford, E.15, returnable by 2nd APRIL, 1959.

WOKING U.D.C.

APPOINTMENT OF ARCHITECTURAL ASSISTANT

A.P.T. Grade II (£725 x £30—£845).

Applications invited for APPOINTMENT IN ARCHITECTURAL SECTION of Engineer and Surveyor's Department. Applicants must be Students R.I.B.A., with good general experience.

Application forms from, and returned to, Mr. H. P. Tame, Engineer and Surveyor, by MONDAY, 13th APRIL, 1959.

GLOUCESTERSHIRE COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT COUNTY ARCHITECT.

Applications are invited for above APPOINTMENT (Grade C, £1,385-£1,620 p.a.). Applicants must be qualified members of the R.I.B.A. and have held a responsible architectural position with a major local authority for a number of years.

The main duties include general co-ordination of the four Architectural Divisions, Heating and Lighting Engineer's Section and Building Surveyors and responsibility, after programming, for production of all building works within the Council's budget. The position offers considerable scope for an architect of initiative and drive.

Post superannuable, J.N.C. Conditions of Service, is subject to satisfactory medical examination, and appointment determinable by three months' notice on either side.

Applications stating age, qualifications, present and previous appointments and experience, together with names of two persons for reference must reach County Architect, Shire Hall, Gloucester, not later than 8th APRIL, 1959.

GUY H. DAVIS,
Clerk of the County Council.

BRITISH RAILWAYS —EASTERN REGION.

ASSISTANT ARCHITECTS with real ability in contemporary design Required for office of Architect, British Railways, Eastern Region, King's Cross Station. Applicants should be able to play a responsible part in the design, administration and site supervision of buildings which are varied and interesting in character. Starting salary: Post (1) £943, or Post (2) £833, depending on qualifications and experience. Five-day week and concessionary rail travel; permanency with membership of superannuation scheme to suitable applicant after probationary period.

Apply in writing stating post applied for and giving particulars of age, experience and any qualifications possessed, to Chief Civil Engineer, British Railways, Eastern Region, King's Cross Station, London, N.1.

COUNTY BOROUGH OF WEST HAM.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for established post of ADMINISTRATIVE ASSISTANT (male)—Salary A.P.T. Grade I—£575 x £30-£725 p.a. and London Allowance—commencing salary within scale according to experience and qualifications.

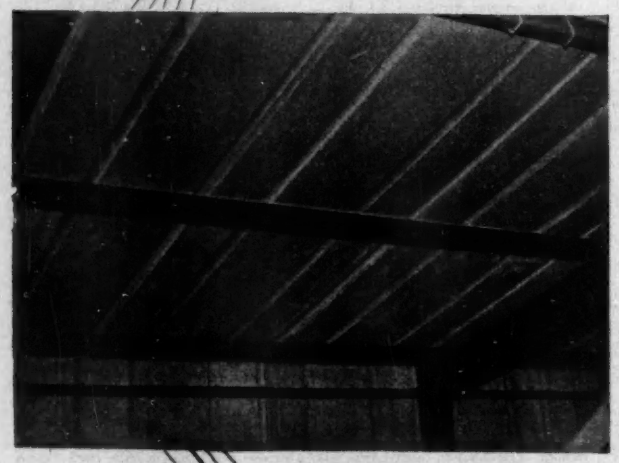
Applicants should have good experience of general office routine and be shorthand typists.

Application form from Borough Architect and Planning Officer, 70, West Ham-lane, Stratford, E.15, returnable by 2nd APRIL, 1959.

High resistance to thermal transmission...

Major Six

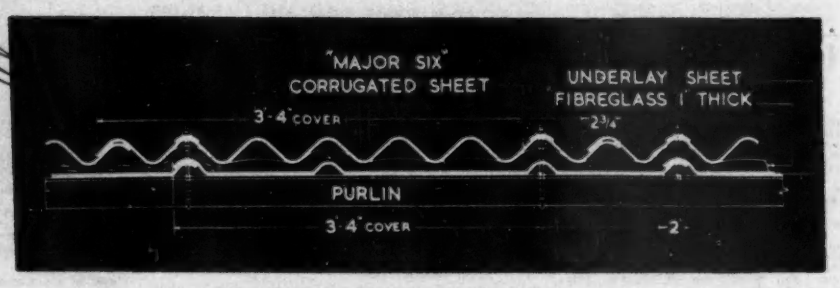
DOUBLE CLADDING INSULATION



Photograph above illustrates interior view of roof

" Major six " DOUBLE cladding insulation provides a high resistance to thermal transmission, contributing to higher equable interior temperature and consequent economical heating. Here is dependable roofing made for quick erection and permanent service.

It's the DOUBLE cladding that does it !—a rigid asbestos-cement underlining sheet laid directly to purlins as a soffit upon which the sheet of insulation is laid before putting the " Major six " sheet in position.



Easily fixed with hook bolts and washers. "Major six" Double Cladding Insulation complies with the requirements of "Thermal Insulation Industrial Buildings" Bill.

THE Atlas Asbestos CEMENT CO. LTD.

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Works at: MELDRETH, nr. Royston, Herts.

Also at: GREENHITHE · STROOD · CAMBRIDGE · SHORNE · RYE (Sussex) · GT. YARMOUTH

COUNTY BOROUGH OF BOOTLE.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of THREE ARCHITECTURAL ASSISTANTS on Grade A.P.T. IV, £1,025 to £1,175 per annum.

Preference will be given to those having experience in the design and planning of Schools.

Application forms, obtainable from the Borough Surveyor, Town Hall, Bootle 20, Lancs, are returnable by FRIDAY, 10th APRIL, 1959.

BY ORDER,
HAROLD PARTINGTON,
Town Clerk.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies for ENGINEERING ASSISTANTS (up to £860) and ENGINEERS, GRADE III (up to £1,020) required in:—

(A) STRUCTURAL ENGINEERING DIVISION. Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings, and

(B) DISTRICT SURVEYORS' SERVICE. In districts coinciding with one exception with Metropolitan Borough boundaries. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress. Good prospects in both of these aspects of the Council's work. Application form and particulars from the Architect to the Council, County Hall, S.E.1, quoting AR/EK/15/59. (257.)

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies exist in Quantities Division of Architect's Dept. for:—

(A) QUANTITY SURVEYING ASSISTANTS with not less than 3 years' experience in an approved office and with Inter. R.I.C.S. qualification to undertake duties in the several branches of the division. Salary up to £860 according to experience

(B) TECHNICAL ASSISTANTS experienced in Working-Up. Salary up to £12 8s. weekly.

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, Ref. AR/EK/12/59, County Hall, S.E.1 (209.)

COUNTY BOROUGH OF HALIFAX.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF BUILDING INSPECTOR.

Applications are invited for the appointment of a BUILDING INSPECTOR at a salary in accordance with A.P.T. I (£575-£725).

Candidates should have had previous experience either as a building inspector or as a building tradesman. Preference will be given to those holding a Higher National Certificate in Building.

Applications stating age, education and training, qualifications, present and past employment and experience, together with the names of three persons to whom reference may be made, should reach me by SATURDAY, 4th APRIL, 1959.

RICHARD de Z. HALL,
Town Clerk.

Town Hall,
Halifax.

BOROUGH OF TWICKENHAM.

Applications are invited for the following posts:—(a) SENIOR ASSISTANT ENGINEER (£750-£1,030); (b) SENIOR ASSISTANT ARCHITECT (£750-£1,030); (c) ASSISTANT ENGINEER (£725-£845); (d) ASSISTANT ARCHITECT (£725-£845); (e) JUNIOR ENGINEER (£575-£725); all plus London Weighting. Posts (a) and (b) Final Examination required; (c), (d) and (e) Intermediate Examination required. Applications stating age, qualifications, experience, etc., and giving the names of two referees, must be received by the Borough Engineer, Municipal Offices, Twickenham, by WEDNESDAY, 30th MARCH, 1959. N.J.C. Conditions will apply and superannuation is payable. Canvassing will disqualify. An applicant who is related to a member of the Corporation or to a Senior Officer must disclose the fact in the application.—W. H. Jones, Town Clerk, Municipal Offices, Twickenham.

COUNTY BOROUGH OF BOOTLE.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of ONE ARCHITECTURAL ASSISTANT on Grade A.P.T. III, £845 to £1,025 per annum.

Preference will be given to those having experience in the design and planning of houses.

Application forms, obtainable from the Borough Surveyor, Town Hall, Bootle, 20, Lancs., are returnable by FRIDAY, 10th APRIL, 1959.

BY ORDER,
HAROLD PARTINGTON,
Town Clerk.

OVERSEAS PUBLIC APPOINTMENTS

NIGERIAN COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY

(Principal: C. A. HART, C.M.G., T.D., D.Sc., Ph.D., M.I.C.E., M.I.Mech.E., F.R.I.C.S., A.M.I.Struct.E.).

Applications are invited for SENIOR LECTURESHIP or LECTURESHIP in LAND SURVEY and ESTATE MANAGEMENT (R.I.C.S.) Courses in: Town and Country Planning, Housing Management, Building Construction.

Courses at present to Inter. R.I.C.S. level. Candidates should be professionally qualified and prepared to lecture in two of the subjects listed. Relevant degree and teaching experience advantageous. Research encouraged.

Contract Salary Scale: Lecturer, £690-£1,529 p.a. Senior Lecturer Grade II, £1,254-£1,584 p.a. Senior Lecturer Grade I, £1,980-£2,178 p.a., all plus gratuity at £25 or £37 10s. for each completed 3 months' residential service according to salary. Salaries of Lecturer and Senior Lecturer Grade II attract inducement addition of £180-£300 p.a. for overseas appointees, but that of Senior Lecturer Grade I is consolidated. Entry point according to qualifications and experience.

Pensionable terms may be arranged at appropriately lower salaries or College would take over and maintain employers' contributions to former F.S.S.U. policies.

Partly furnished quarters at one-twelfth basic salary rental. Tours 10-18 months but leave normally taken in long vacation. Free 1st class passages. Children's U.K. maintenance grant up to £150 p.a. and passages assistance.

Applications (6 copies) giving age, qualifications, experience and names of 3 referees should be sent to the Council for Overseas Colleges, 12 Lincoln's Inn Fields, London, W.C.2, by 14th APRIL, 1959.

NIGERIAN COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY

(Principal: C. A. HART, C.M.G., T.D., D.Sc., Ph.D., M.I.C.E., M.I.Mech.E., F.R.I.C.S., A.M.I.Struct.E.).

Applications are invited for SENIOR LECTURER or LECTURER in QUANTITY SURVEYING.

Courses at present to Inter. R.I.C.S. level. Candidates should be professionally qualified and prepared to lecture also in one of the following as a Second Subject: Town and Country Planning, Housing Management, Building Construction. Relevant degree and teaching experience advantageous. Research encouraged.

Contract Salary Scales: Senior Lecturer Grade I, £2,160-£2,376 p.a. consolidated. Senior Lecturer Grade II, £1,368-£1,728 p.a. plus £300 p.a. inducement addition to overseas candidates. Lecturer, £1,020-£1,668 p.a. plus £270-£300 p.a. inducement addition to overseas candidates. All plus gratuity at £37 10s. for each completed 3 months' residential service. Entry point according to qualifications and experience.

Pensionable terms may be arranged at appropriately lower salaries or College would take over and maintain employers' contributions to former F.S.S.U. policies.

Partly furnished quarters at one-twelfth basic salary rental. Tours 10-18 months but leave normally taken in long vacation. Free 1st Class passages. Children's U.K. maintenance grant up to £150 p.a. and passages assistance.

Applications (6 copies) giving age, qualifications, experience and names of 3 referees should be sent to The Council for Overseas Colleges, 12 Lincoln's Inn Fields, London, W.C.2 by 14th APRIL, 1959

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GOVERNMENT OF QUEENSLAND.

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SENIOR ARCHITECT (DESIGN). A£2,001-A£2,221.

ARCHITECT, Division I (GENERAL). A£1,846-A£2,021.

ARCHITECT, Division I (DESIGN). A£1,846-A£2,021.

STRUCTURAL DESIGNER. A£1,846-A£2,021.

ARCHITECT, Division II. A£1,571-A£1,721.

ARCHITECT, Division III. A£1,221-A£1,521.

QUANTITY SURVEYOR, Division I. A£1,746-A£1,921.

Application form and further details may be obtained from the Agent-General for Queensland, 409-410, Strand, London, W.C.2.

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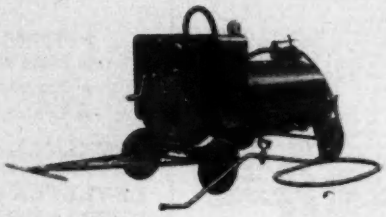

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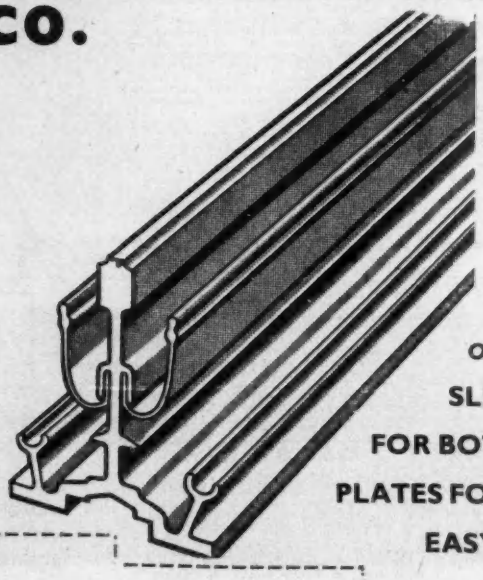

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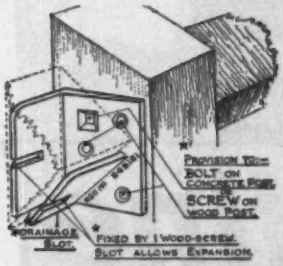

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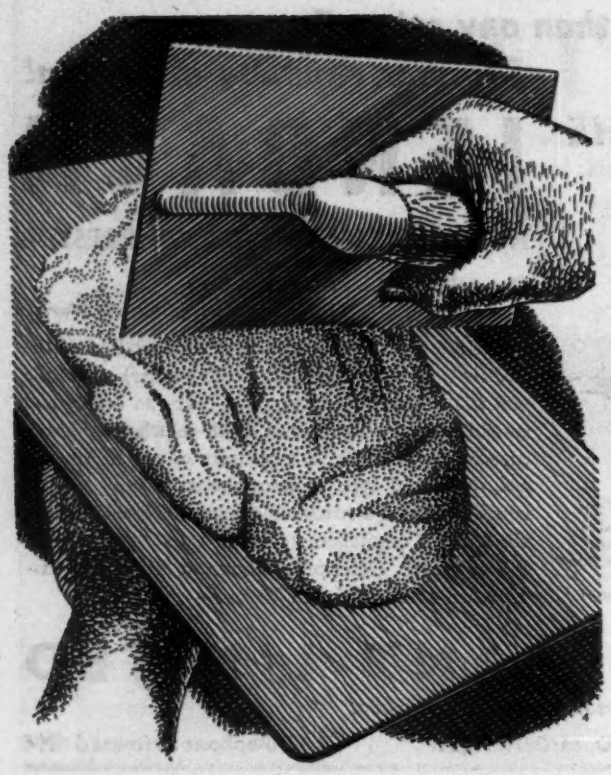

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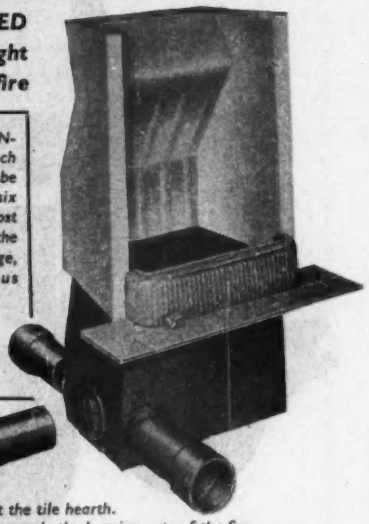

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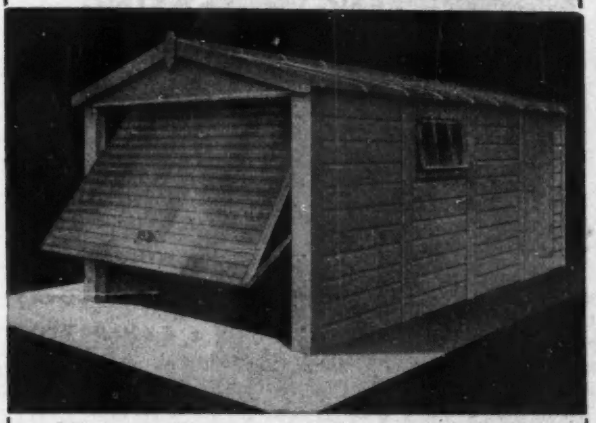

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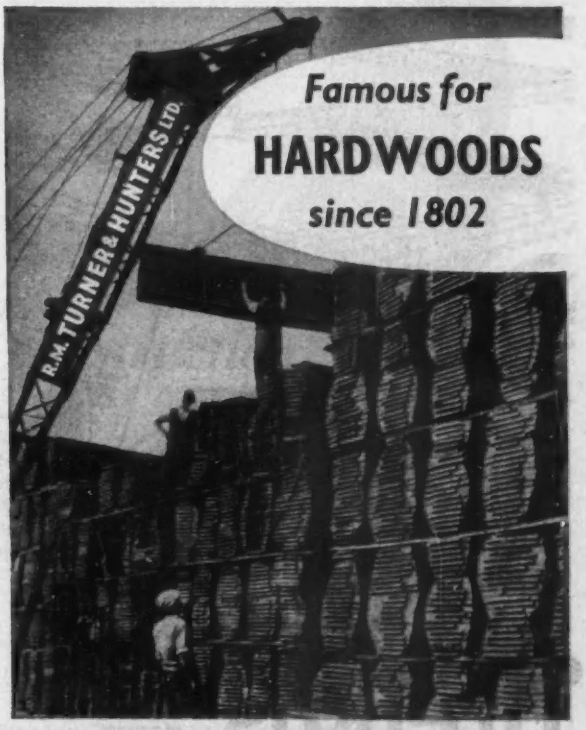

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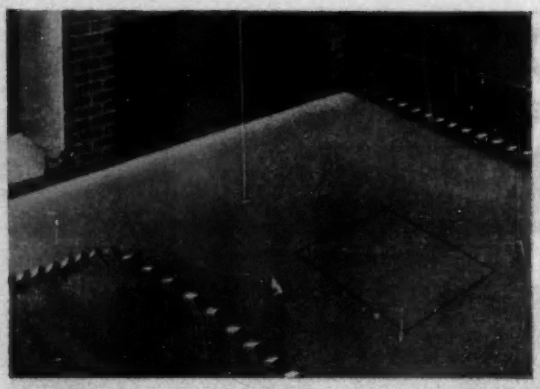

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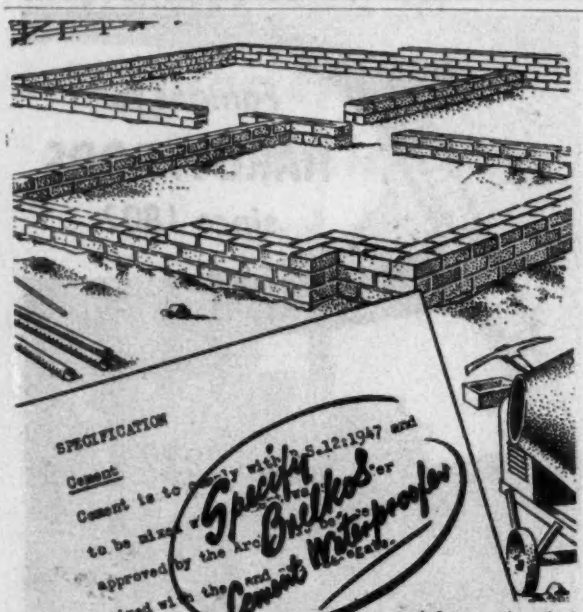

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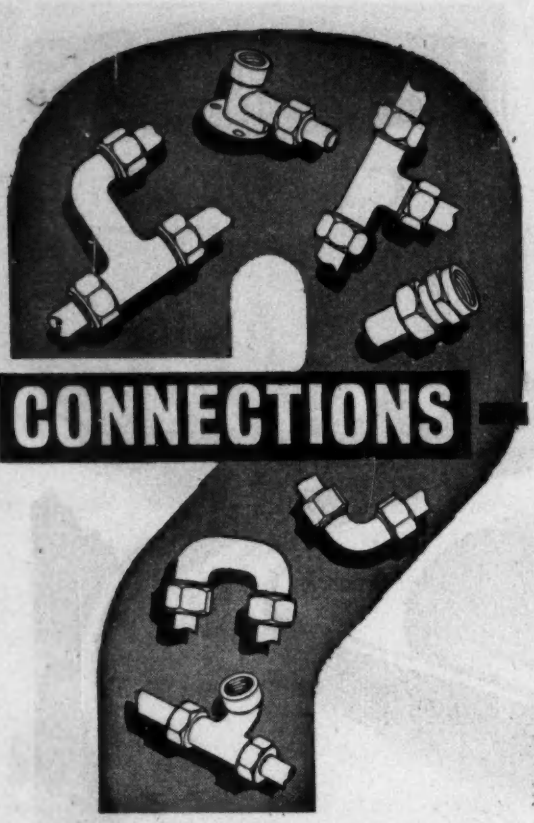

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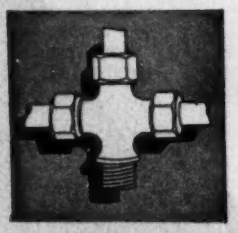

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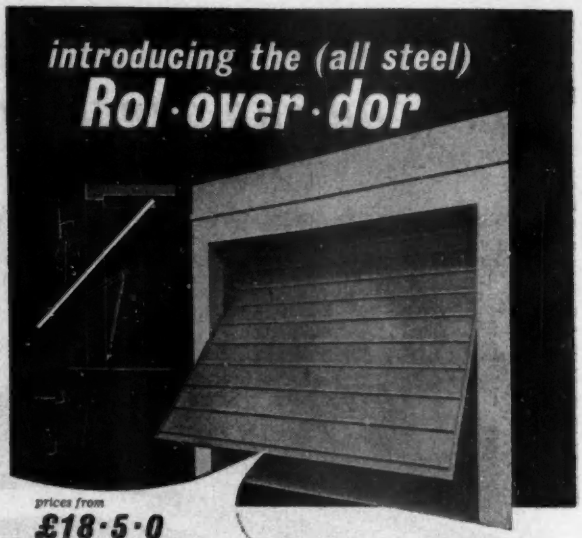

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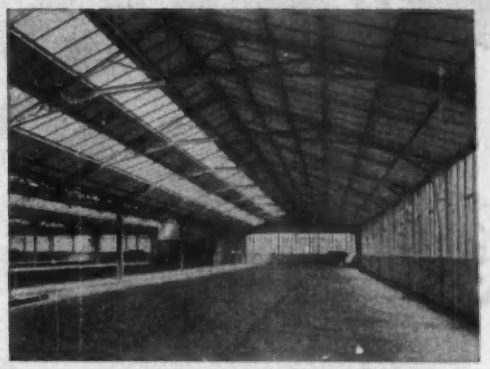

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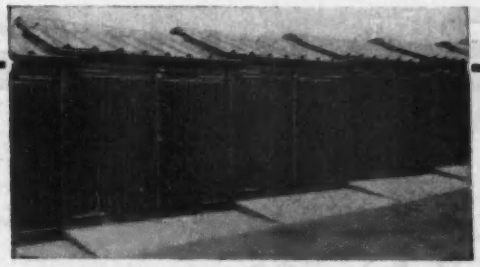

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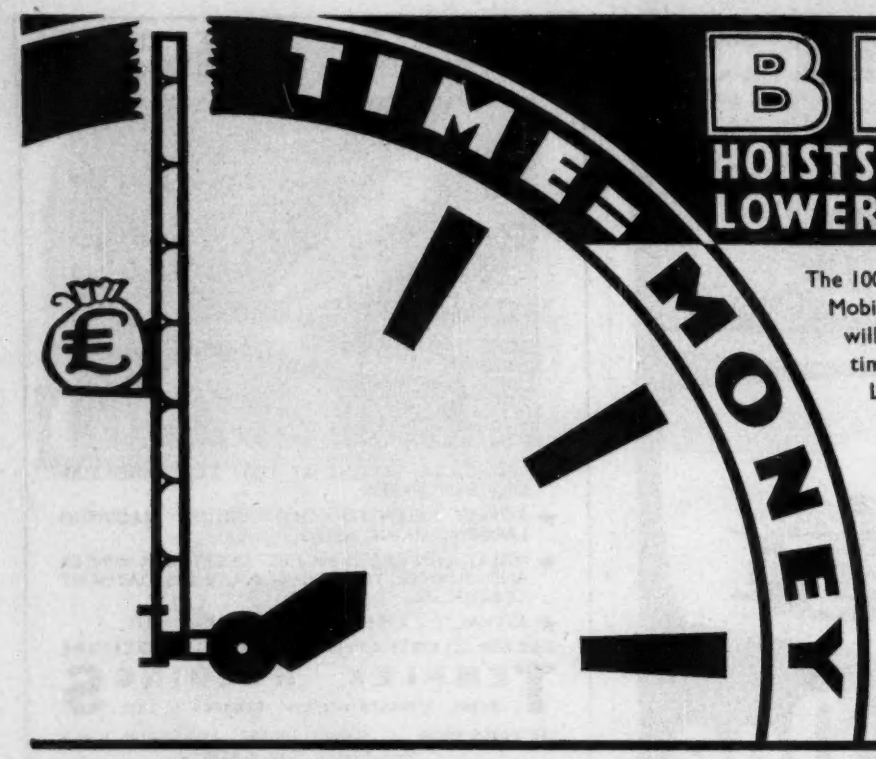

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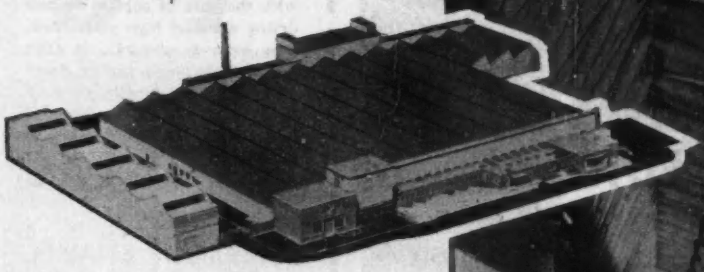

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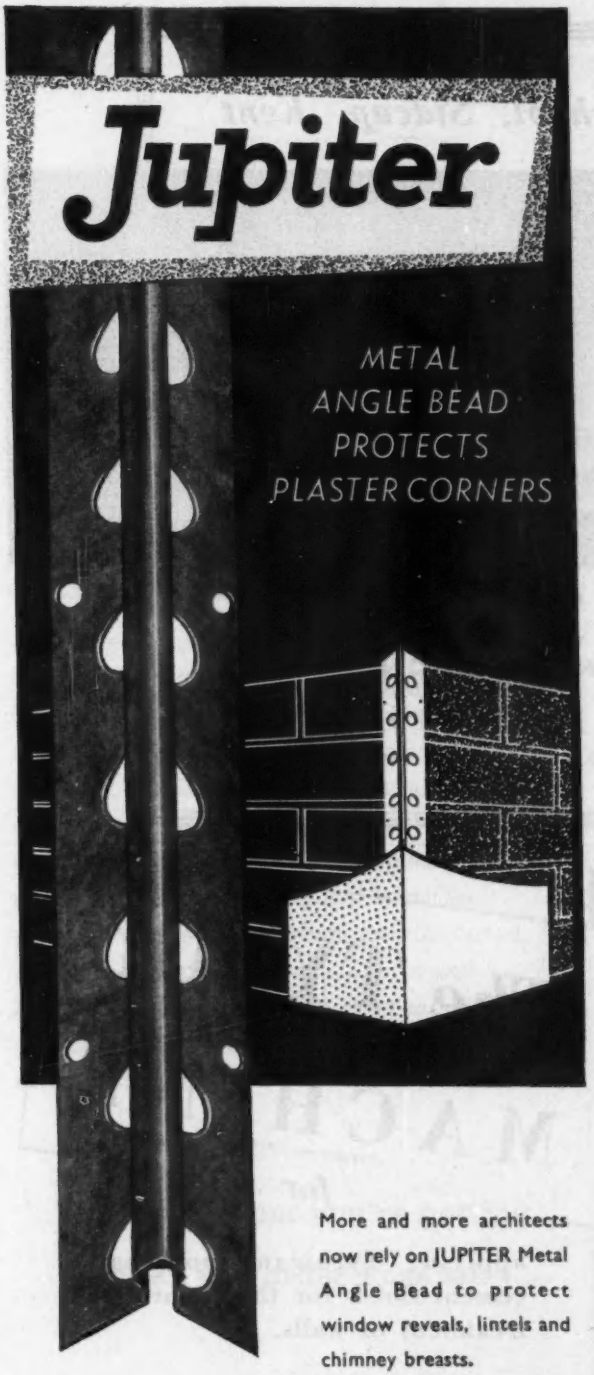

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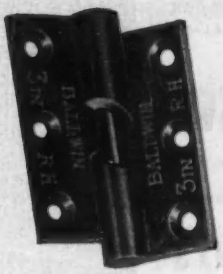

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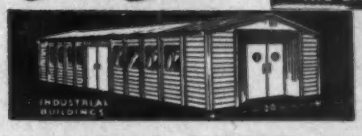

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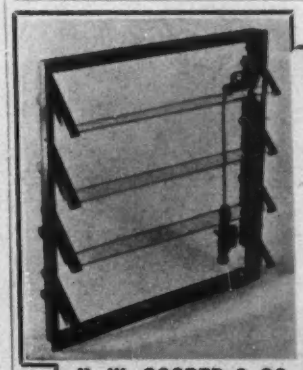

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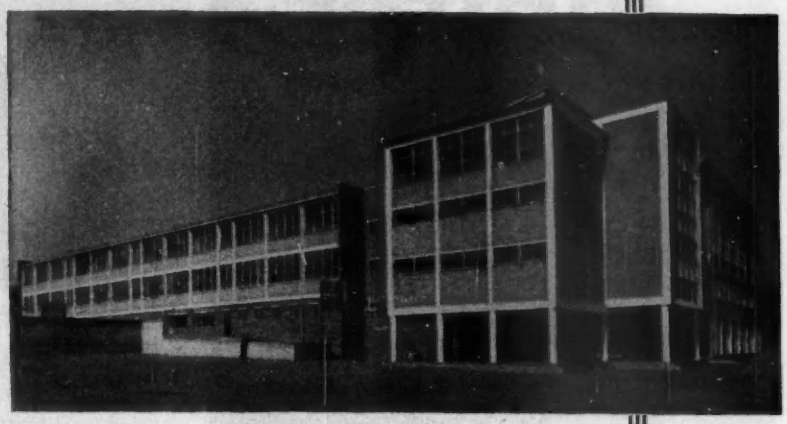

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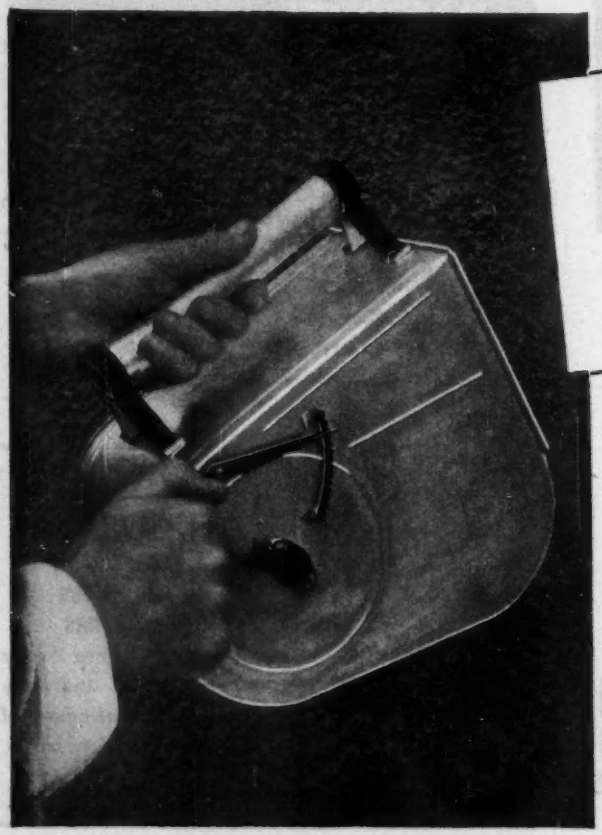

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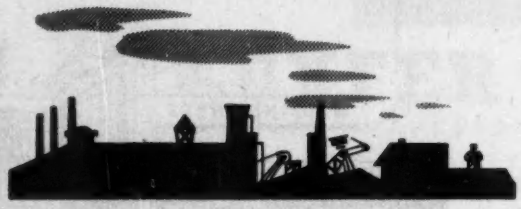

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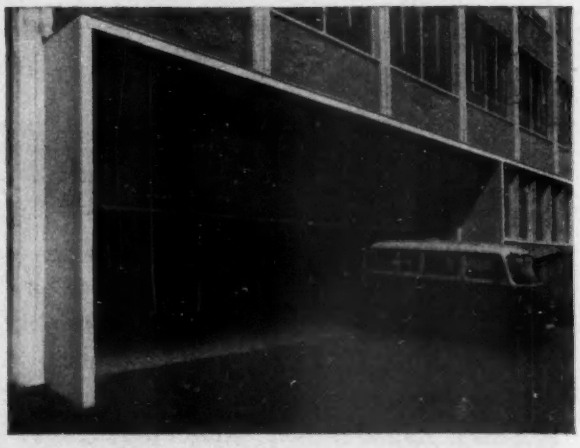

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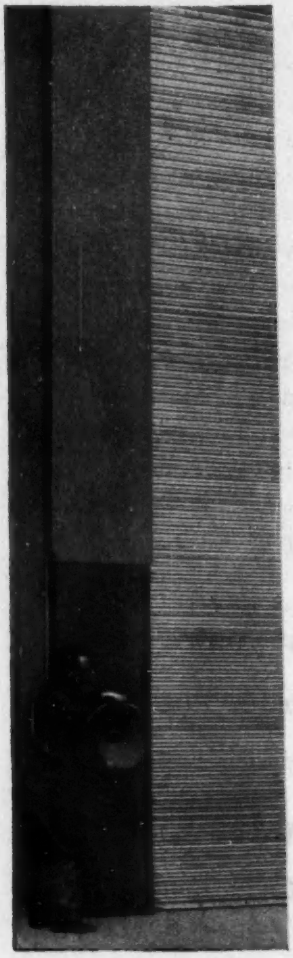

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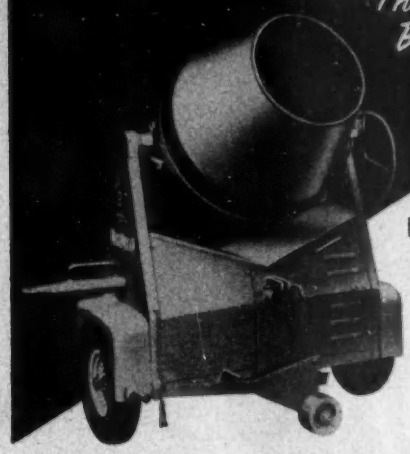

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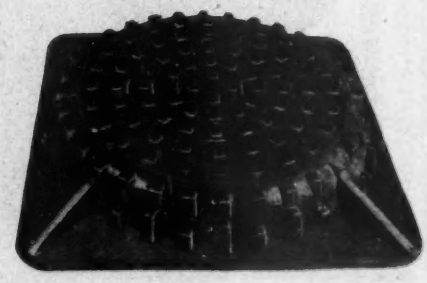

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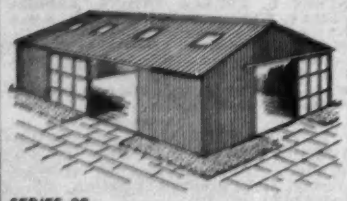

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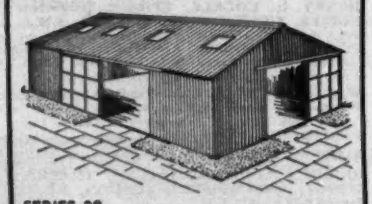

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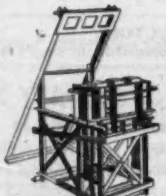

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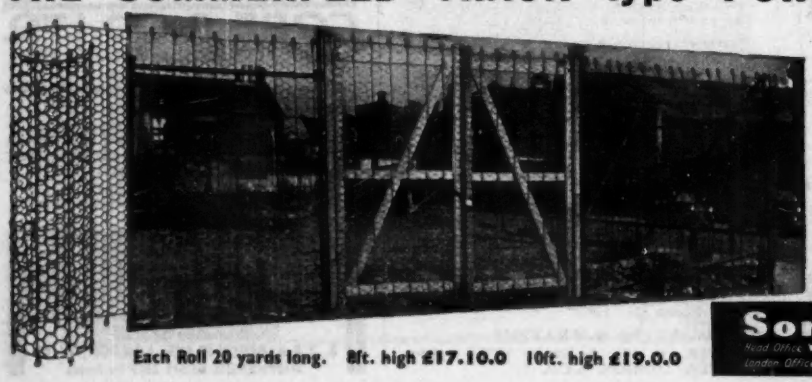

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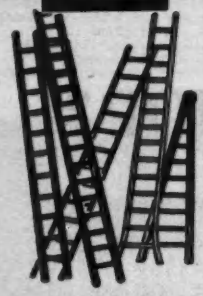

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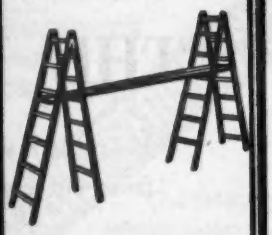

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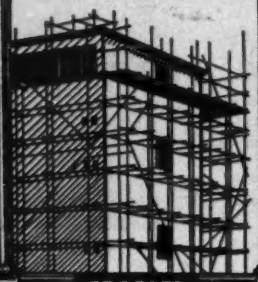

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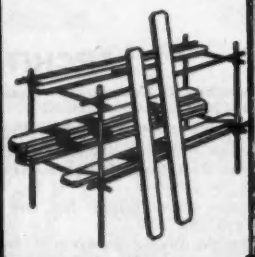

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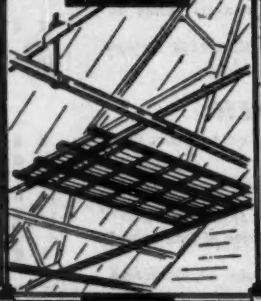

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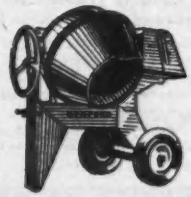

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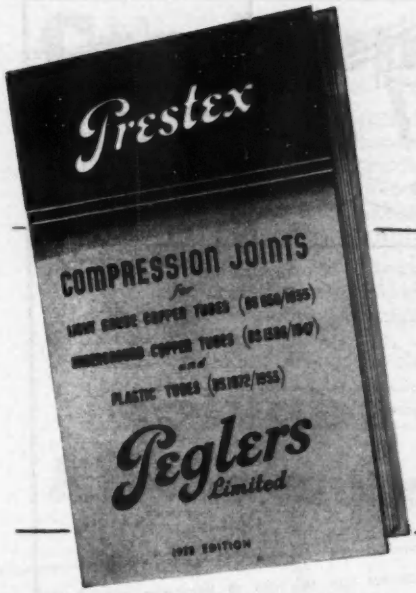

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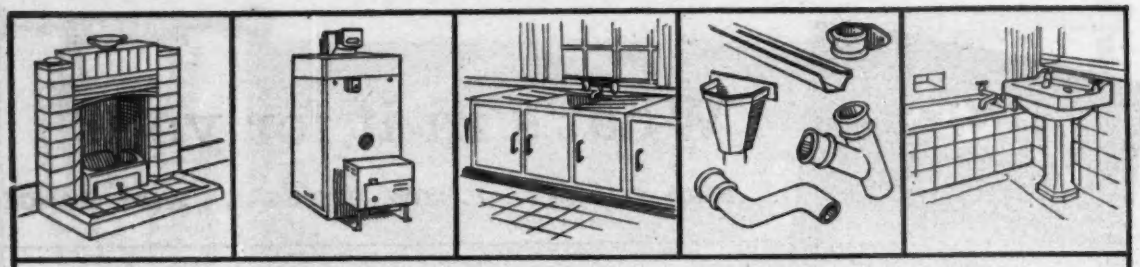

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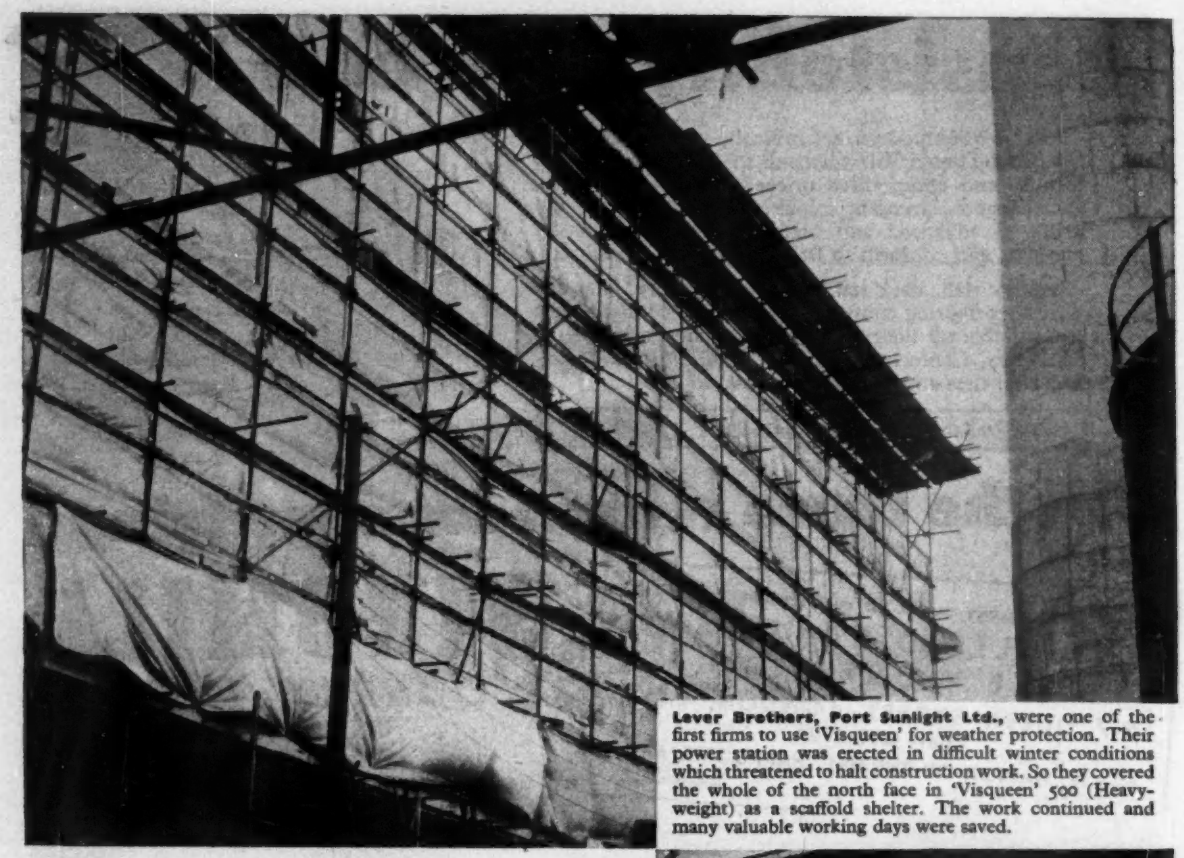

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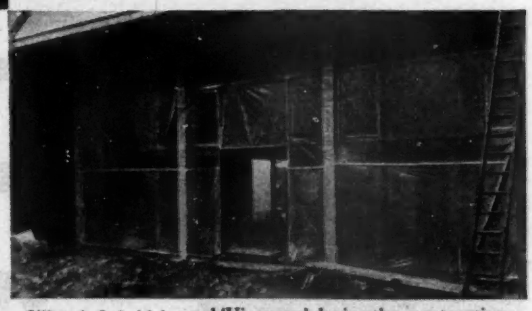

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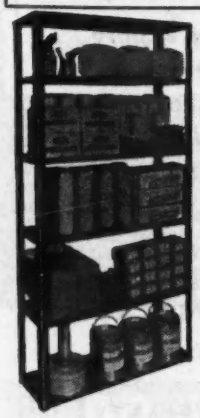

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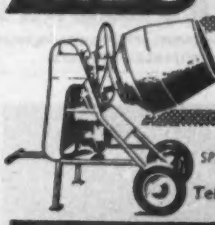

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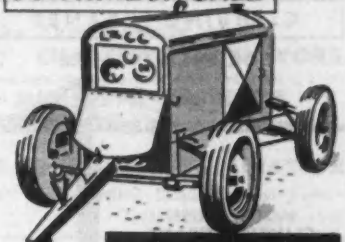

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VACANCIES have occurred for a QUANTITY SURVEYOR and an ASSISTANT QUANTITY SURVEYOR to carry out the preparation of interim certificates and final accounts, etc., for a large firm of Building and Civil Engineering Contractors in the Manchester area. The positions will be pensionable after a period of probation.—Reply stating age, experience, salary required, etc., to Box 2286, "The Builder."

QUALIFIED QUANTITY SURVEYOR

required by large West Country masonry works for taking off stonework from drawings. Permanent post for suitable applicant.

Box No. 2246, "The Builder"

QUANTITY SURVEYOR Required in Professional Office at Newbury. Intermediate R.I.C.S. standard. Starting salary £500 to £550 according to experience. Applications to H. J. RIDGE & PARTNERS, Chartered Quantity Surveyors, 17a Northbrook-street, Newbury, giving full details of past experience, examinations passed, age, and copies of testimonials, which will be returned.

BONUS SURVEYOR Required at our Birmingham office, in Corporation-street, to deal with building contracts in the Birmingham area.—Write stating age, experience and salary required to THOMAS LOWE & SONS, Ltd., Curzon-street, Burton-on-Trent.

JUNIOR MEASURING SURVEYOR for programming, checking work in progress and final accounts for solid plastering, London area.—Apply Box 2137, "The Builder."

BUILDING SURVEYOR Required by Westminster Chartered Surveyors. Good experience of dilapidation and derequisitioning claims essential with emphasis on thorough knowledge of pricing. Specification writing, supervision of maintenance work, etc., desirable. Age 30-45 with practical rather than theoretical background.—Applications stating age, experience and salary required to Box DA.2654 c/o WHITES, 72, Fleet-street, E.C.4.

MEASURING SURVEYOR for London Quantity Surveyors, able to handle interim Valuations, Deviations and Final Accounts.—Write stating age, experience and salary required to Box 933, "The Builder."

MEASURING SURVEYORS Required by London firm of Chartered Quantity Surveyors for permanent staff. Five-day week.—Write, stating age, experience and salary required to Box 966, "The Builder."

CHARTERED QUANTITY SURVEYOR, Carlisle, has vacancy for good all-round man, TAKER-OFF AND MEASURING SURVEYOR.—Particulars and salary required to Box 2182, "The Builder."

JUNIOR BUILDING SURVEYOR Required to assist in management of large contracts, checking final account, supervising and managing jobbing work. Permanent position for suitable applicant.—Please state full personal details, experience and salary required. F. HITCH & CO., Ltd., Ware, Herts.

BONUS SURVEYOR. Young Man Required by West Herts. Painting Contractors for Contracts in the London, Home Counties and adjacent areas. Car driver essential. Progressive opportunities for suitable applicant. State experience, age and salary required.—Box 2183, "The Builder."

ESTIMATING SURVEYOR

(Age 25/30)

For Jobbing Department of one Company in this Group. Knowledge of alterations and decorations essential.

Only ambitious applicants anxious to progress further in their career are invited to reply. Offices in Central London. Bonus on results and non-contributory Pension scheme. Reply stating age, experience, and Salary range contemplated, to:

Box 2184 The Builder

MEASURING SURVEYORS Required for building contracts in Central London area, with experience of measuring variations, preparing interim certificates and final accounts.—Write giving experience, age and salary required to The Secretary, GRIGGS & SON, Ltd., 56 Victoria-street, London, S.W.1.

SURVEYOR, experienced and capable to take full responsibility of small and medium-size contracts with the object of producing work at an economic rate with reasonable quality and a fair return. Offices in Central London.—Box 2185, "The Builder."

BONUS MEASURING SURVEYORS

required by

RICHARD COSTAIN LTD.

Applicants must be capable of measuring all trades and bonusing medium and large contracts, and must have a thorough knowledge of costing. Minimum of two years' site experience essential.

Apply to:

Assistant Personnel Officer,
111, Westminster Bridge Road,
London, S.E.1.

COST SURVEYORS Required for Building Contracts in the London area. The positions are permanent and offer good prospects in this and other fields.—Please write, in confidence, to Personnel Dept., HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN), Ltd., 1, Queen Anne's-gate, London, S.W.1, or telephone WHitehall 3111, Ext. 324.

Plastering Surveyor
required by
Contractors in the London Area

Should be capable of dealing with bonus, interim certificates and final accounts. Permanent and superannuated post for successful applicant. Please write, stating age, experience and salary required, to **Jonathan James Ltd., 55/57, Lacy Road, London, S.W.15.**

ORDER SURVEYOR Required in Buying Dept. Competent to abstract and order materials from drawings and Bills of Quantities and obtain quotations for placing Sub-Contracts. Salary from £750, according to experience.—Write or 'phone, LAVENDER, McMILLAN (CNTRS.), Ltd., 54, Cheam Common-road, Worcester-park, Surrey. DERwent 8681-9, Ext. 2 or 8.

SURVEYORS for interim and final accounts, site measurement, etc., for London contractors. Pension scheme, excellent opportunities for experienced men.—Full details Box 2186, "The Builder."

J. & C. BOWYER, Ltd., of Haynes-lane, S.E.19, have a vacancy for a SURVEYOR. The situation is a permanent and progressive one suited to an enthusiastic man in the 25-30 age group. Car driver essential with wage commensurate with age and ability.—Apply in writing stating details.

BUILDING AND MEASURING SURVEYOR Required, capable of handling contracts from £5,000-£250,000, must be experienced in Taking-off and ordering materials from Bills of Quantities, interim certificates and final accounts.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

BONUS AND COST SURVEYOR Required in the South West area. Only experienced men capable of pretargetting need apply. Excellent prospects for the right man.—STAVERTON BUILDERS Ltd., Totnes, Devon.

MEASURING SURVEYOR Required for expanding contracts division, and to supervise preparation of interim certificates, final accounts, and quantities generally.—Apply in writing to the General Manager, BELL & WEBSTER, Ltd., Essex-road, Hoddesdon, Herts.

BUILDING SURVEYOR or BUILDERS' MANAGER Required for Shrewsbury and district. Responsible only to Managing Director. Average of 60 men, all trades, work mostly Housing Estate development for sale on reasonably large scale including roads and sewers. Good, general experience of building trade essential. Some technical qualification an advantage. Very promising and progressive position of permanent character for a young or early middle aged man of energy and ability. Assistance in housing if required.—State experience, salary required, etc. Salary range £900 to £1,150.—FLETCHER ESTATES, Ltd., Whitchurch-road, Shrewsbury.

SURVEYOR Required for fencing contractors engaged on Home Counties' contracts. Applicants must have good knowledge of measuring for valuations and final accounts. Permanent appointment for person with initiative. Transport provided.—Write, stating age, experience and salary required, to Director, Box 2247, "The Builder."

SENIOR QUANTITY SURVEYING ASSISTANT Required to supplement present direction of quantity surveying side of consulting engineers. Location London. Experience essential in both preparation of documents and measurements and agreeing final accounts. Post is within senior range and salary will be considered according to experience and qualifications. Post carries staff pensions, is not temporary and has good prospects financially and otherwise.—Details please to Box 2248, "The Builder."

BUILDING SURVEYOR Required to measure up properties for maintenance and conversion as basis of estimates of labour and material costs. If experienced in bonus and cost control would be considered for progressive post. Good salary and conditions depending on experience.—Box 2249, "The Builder."

SENIOR SURVEYOR Required to take charge of re-measurements and agreement of contracts to final account stage, preparation and agreement of Sub-Contractors' accounts, submission of interim valuations.—Write stating age, experience, education and salary required, to C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

SENIOR SURVEYOR Required by Quantity Surveyors for measuring on W.D. Schedule within 60 miles radius of London. Must be car driver, car provided. Salary £1,250 per annum, plus overtime. Write stating age and experience.—Box 2324, "The Builder."

SURVEYOR Required, aged 28-36 years, capable of dealing with all aspects of Final Account to completion on contracts up to £750,000.—Write fully, stating experience, salary expected, etc., to Chief Surveyor, WILSON LOVATT & SONS, Ltd., 16 Grosvenor-crescent, S.W.1.

BUILDER'S SURVEYOR for Medway area contractor, five years' recent experience in builder's office from enquiry to account essential, qualified man preferred but experience more essential.—State experience, salary and age, replies will be treated in confidence and acknowledged, Box 2322, "The Builder."

SURVEYOR Required for management of Estate Maintenance work in London.—Details to be addressed to the Chief Surveyor, Box 2323, "The Builder."

SURVEYORS

Required in London Office by Civil Engineers and Contractors. Applicants should be between 25 to 35 years of age, with H.N.C., L.I.O.B. or similar qualifications.

Experience in taking-off for reinforced concrete work would be an advantage.

These positions will carry a first-class salary according to experience and ability.

A Pension and Life Assurance Scheme will apply after a satisfactory trial period. Please write stating age, qualifications, experience and salary required to the **Chief Surveyor, The London Ferro-Concrete Co. Ltd., 247/249 Vauxhall Bridge Road, London, S.W.1.**

ASSISTANT SURVEYOR Required by an old established West End firm of Surveyors with busy practice. Interesting and varied work in all parts of Southern England and the London area. Preference given to young man qualifying with R.I.C.S.—Write with details of qualifications, experience and salary required to ELLIOTT, SON & BOYTON, 86-87, Wimpole-street. Please mark replies private and confidential.

ASSISTANT MEASURING SURVEYOR Required. Site measurements, sub contractors Final Accounts.—Apply with particulars, KIND & CO. (BUILDERS), Ltd., 564, High-road, Leytonstone, E.11.

ASSISTANT SURVEYOR Required for Contractors in Bedfordshire. Mainly for final account purposes on medium-sized contracts. Good opportunity for advancement and opportunity to learn estimating.—Box 2233, "The Builder."

ASSISTANT SURVEYOR Required by large London estate, age 30-40, experienced in preparing detailed specifications, plans, schedules of dilapidations, structural reports and in checking Building Accounts in connection with estate repairs.—Box 2138, "The Builder."

ASSISTANT SURVEYOR Required to prepare interim and final accounts for Reinforced Concrete and Hollow Tile floor construction.—Write stating age, experience and salary required to F. BRADFORD & CO., Ltd., Angel-road, Edmonton, N.18.

ASSISTANT SURVEYOR, capable of Taking-off quantities for ordering materials, Required by North London Building Contractors.—Write stating age and salary required to A. T. ROWLEY (LONDON), Ltd., Cambridge Works, Lordship-lane, Tottenham, N.17, or phone TOT 3611.

BIRMINGHAM. Chartered Quantity Surveyors Require ASSISTANTS, permanent and temporary.—Apply with full details of experience, age, etc., to MAXWELL HARRISON, 106 Colmore-row, Birmingham, 3.

ASSISTANT SURVEYORS for Head Office and sites in London area. Knowledge of measurement bonusing and valuations; good opportunities Write giving age, experience and salary required.—Box 2187, "The Builder."

ASSISTANT Required by Chartered Quantity Surveyors (Inter. Standard) for permanent and progressive position. Varied work and five-day week.—Apply stating age, experience and salary required to DENIS TYRRELL & PARTNERS, 1, Newman-street, W.1.

SENIOR ASSISTANT Required by Chartered Quantity Surveyors for permanent position. Varied work and five-day week.—Apply stating age, experience and salary required to DENIS TYRRELL & PARTNERS, 1, Newman-street, W.1.

WILTSHIRE: SENIOR ASSISTANT Required for busy branch office of well-known London Quantity Surveyors. Five-day week, overtime extra.—Reply stating age, experience and salary required to Box 2291, "The Builder."

JUNIOR with some basic knowledge of working-up for small firm West End Quantity Surveyors, also to assist in preparing final accounts on varied types of constructional work. Reply stating age, experience and salary required.—Box 2148, "The Builder."

POSITION in Quantity Surveyor's office in Westminster offered to boy just leaving school. Five-day week. Luncheon vouchers and good prospects for advancement.—Reply Box 2156, "The Builder."

HOLLAND AND HANNEN AND CUBITTS (Great Britain) LTD.

Applications are invited from suitably qualified men for employment in the Planning Section of the Company's main Building Department. Vacancies exist for

HEAD OFFICE and SITE PLANNING STAFF

The work includes detailed time and method operational planning and budgetary control of expenditure on Labour, Plant and Materials. Preference will be given to applicants possessing a Higher National Diploma in Building, but a marked aptitude for planning is an essential requirement. Craft trained men who are continuing their technical education will be considered.

The appointments are permanent and pensionable and offer good prospects for advancement within the expanding organisation.

Applications should be made in writing to:—

The Personnel Manager, 1, Queen Anne's Gate, Westminster, S.W.1.

TRAINEE Required by old-established London firm of Quantity Surveyors near Victoria Station. Salary paid during training.—Reply giving details of education, age, etc., to Box 2293, "The Builder."

COMPETENT TAKER-OFF Required in London Chartered Quantity Surveyors' office. Apply stating age, experience, qualifications and salary required to Box 957, "The Builder."

TAKER-OFF Required by Chartered Quantity Surveyors, nr. Victoria Station. Salary £900 p.a. or according to experience. Luncheon vouchers. Pension scheme. Five-day week.—Box 2188, "The Builder."

TAKER-OFF, aged 25-30, preferably A.R.I.C.S., Required by West End Quantity Surveyors. Five-day week.—Please reply stating age, experience, etc., to Box 2189, "The Builder."

CHARTERED QUANTITY SURVEYOR Requires ASSISTANT TAKERS-OFF for housing and other works. Head Office, Southsea, Hants.—Box 2190, "The Builder."

TAKER-OFF Required by Chartered Quantity Surveyors for sub-office in Reading area.—Apply Box 2191, "The Builder."

QUANTITY SURVEYORS. Excellent opportunity in Birmingham office for experienced TAKER-OFF; able to supervise. A.R.I.C.S. Permanent position with superannuation. Salary £1,350 plus overtime.—Box 2192, "The Builder."

QUANTITY SURVEYORS Require qualified and fully experienced SENIOR TAKER-OFF. Excellent prospects. Salary by arrangement with overtime and superannuation.—L. C. WAKEMAN AND PARTNERS, 11-12, Highfield-road, Birmingham, 15.

EXPERIENCED TAKER-OFF/MEASURING SURVEYOR Required in North of England for a large Site Contract. Good salary for suitable man.—Please reply, stating age and experience, to Box 2193, "The Builder."

CHARTERED QUANTITY SURVEYORS Require TAKER-OFF in Berkshire area.—Apply Box 2194, "The Builder."

EXPERIENCED TAKER-OFF/MEASURING SURVEYOR Required for a large Site Contract in N.E. England. Good salary paid to suitable applicant.—Please reply stating age and experience to Box 2195, "The Builder."

TAKER-OFF Required, age 25-30, for new work and final accounts.—Apply in writing to JOHN McBAIN & PARTNERS, Quantity Surveyors, 49-50, Maybury-road, Woking, Surrey, stating experience and salary required.

CHARTERED QUANTITY SURVEYOR, W.C.2, with small but widely varied practice Requires JUNIOR TAKER-OFF.—Write with full details of age, experience and salary required to Box 2139, "The Builder."

QUALIFIED TAKER-OFF Required by London Chartered Quantity Surveyors with varied and interesting practice.—Please reply stating age and professional experience to Box 2287, "The Builder."

CHARTERED QUANTITY SURVEYORS Require QUALIFIED TAKER-OFF, A.R.I.C.S., for varied and interesting work in medium-sized busy office. Permanent position available to suitable applicant. Salary £1,100-£1,200 per annum.—Write in confidence to Box 2290, "The Builder."

SENIOR TAKING-OFF ASSISTANTS Required by Westminster firm of Quantity Surveyors (close Victoria Station). Salary £1,000 to £1,250 p.a. according to experience. Five-day week, overtime extra.—Full details of experience, age, etc., to Box 2292, "The Builder."

WORKER-UP Required by Quantity Surveyors for branch office in Weymouth, Dorset.—Write giving age, experience, and salary required to Box 2219, "The Builder."

WORKER-UP Required for Quantity Surveyor's Office in the Medway Towns; opportunity to advance to Taking-off can be arranged in due course if desired. Overtime and bonuses paid.—Reply stating brief details of experience together with age and salary required to Box 2140, "The Builder."

CHARTERED QUANTITY SURVEYORS Require the following Staff: (a) SENIOR WORKER-UP; (b) WORKER-UP.—Apply in writing with full particulars indicating post applied for and salary required to V. B. JOHNSON AND PARTNERS, Leet Court, King-street, Watford.

JUNIOR WORKER-UP Required by London Chartered Quantity Surveyors.—Please reply stating age, experience, and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

EXPERIENCED WORKER-UP Required by London Quantity Surveyors.—Write, stating age, details of experience and salary required, to Box 919, "The Builder."

CAPABLE WORKER-UP Required in London Chartered Quantity Surveyors' office. Appointment with prospects of advancement according to capability. Apply in writing stating age, office and examination experience and salary required to Box 956, "The Builder."

EXPERIENCED WORKER-UP Required by Westminster firm of Quantity Surveyors. Five-day week and luncheon vouchers. Good prospects and opportunities.—Write stating experience and salary required, Box 975, "The Builder."

WORKER-UP is Required in N.E. England for a large site contract by a firm of Chartered Quantity Surveyors.—Write stating age, experience and salary required to Box 2196, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors with office near Victoria Station. Five-day week; luncheon vouchers; paid overtime. Salary according to age and experience.—Box 2197, "The Builder."

SENIOR WORKER-UP Required in West End Chartered Quantity Surveyors' office to take charge of department. This is a long term appointment and applicants should be prepared to make Working-Up their career. Good salary and prospects.—Box 2198, "The Builder."

EXPERIENCED WORKER-UP Required by City professional office. Salary £700-£850 according to experience.—Box 2199, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors in Holborn. Five-day week.—Write stating age to Box 983, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyor with small West End practice, willing to assist principal in general office routine, would have room to himself.—Write stating age, experience and salary required, Box 2325, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors; varied work and good opportunities for advancement.—Reply stating age, scholastic and professional experience to Box 2286, "The Builder."

WORKER-UP capable of taking charge of small working-up section Required by London Chartered Quantity Surveyors. Good all-round experience essential.—Reply stating age and professional experience to Box 2289, "The Builder."

FORMWORK ENGINEER

We are a large and progressive firm engaged in industrial building, housing and civil engineering. Our headquarters are in Birmingham with a branch in South West England. We have a vacancy in our Planning Department for a

FORMWORK ENGINEER

Training in our advanced methods will be given to the successful applicant who will be paid an excellent salary in accordance with his qualifications and experience. We have a progressive staff policy operating Superannuation and Profit Sharing schemes and assistance in car purchase. For further details and application form, apply in strict confidence giving brief particulars to:

Joint Managing Director,
C. Bryant & Son Ltd.,
65, Whitmore Road, Small Heath
Birmingham ,10.

ENGINEER

INSPECTOR Required for Railway Civil Engineering work to supervise contract work in London area. Applicants should have previous experience in site supervision of building work and be fully conversant with all building trades. Basic salary £630 per annum.—Write giving experience and names of referees to Box 2234, "The Builder."

ENGINEER AGENT

required for Multi-Storey Flat Contract. Applicants to have first-class site experience of Reinforced Concrete and Quality Control of concrete. Permanent position, pension scheme. Salary to suit qualifications and experience. Applications with full details of experience, age and qualifications should be addressed to :

The Personnel Officer,
The Unit Construction Co., Ltd.,
North West Region,
Speke Boulevard, Liverpool, 24.

CLERK OF WORKS Required for major extension building programme for Secondary School at Didcot. Contract duration approximately two years.—Reply giving particulars of experience and salary required with names of referees to MESSRS. BRETT, BOYD & BOSANQUET, 60, St. John-street, Oxford.

NORTH & PARTNERS, Chartered Architects, Maidenhead. Require experienced CLERK OF WORKS for new store building in Ilford. Salary £750-£1,000 per annum.

CLERK OF WORKS Required for Laboratory project near Manchester. Commencing June, 1959, duration approx. 15 months. Previous experience of Laboratory work essential. Salary by arrangement. Interviews London or Manchester.—Write Box 2250, "The Builder."

ESTABLISHED REINFORCED CONCRETE SPECIALISTS, near Victoria Station, S.W.1, have vacancies for ESTIMATORS and TAKERS-OFF. Five-day week. Pension Scheme. Luncheon Vouchers given.—Write stating age, experience and salary required to Box 959, "The Builder."

EXPERIENCED JOINERY ESTIMATOR Required, accustomed to pricing Bills of Quantities.—Apply ELLIOTTS OF READING, Caversham, Reading.

ESTIMATOR

required for London Head Office. Applicant must have held senior appointment with public works contractors and be fully conversant with modern civil engineering estimating techniques and procedures. Good salary and prospects. Pension Fund. 5-day week. Luncheon Club. Write details, age and experience (I.A.M./147), **BALFOUR, BEATTY & CO., LTD., 66, Queen Street, London, E.C.4.**

ESTIMATOR Required, experienced in Display shopfitting or allied trade. Good all round knowledge of modern methods and materials necessary. Attractive salary. Write full details of experience to LEON GOODMAN DISPLAYS, Ltd., 119-125, Whitfield-street, W.1.

ESTIMATOR Required by HEALS BUILDING DEPT. with experience all trades, able to handle work from enquiry to final account.—Apply with details of age, experience, salary, etc., to Director, Building Dept., 196, Tottenham Court-road, W.1.

BUILDERS' ESTIMATOR-SURVEYOR Required for medium-size Contracts and smaller works. Fully experienced in taking-off and pricing Drawings and Specifications and preparing Interim Certificates and Final Accounts.—Apply in writing, stating age, experience and salary required, to GRACE & MARSH, Ltd., New Bridge Works, Waddon, Croydon.

ASSISTANT ESTIMATOR Required by South London firm of Building Contractors. Experienced in competitive Tendering upon Bills of Quantities and otherwise. Progressive post with good prospects to suitable applicant.—Please reply in confidence stating age, experience and some indication of salary required, Box 2200, "The Builder."

SENIOR ESTIMATOR

required by progressive firm. Applicant should have sound knowledge of price build up and capable of estimating for contracts up to £500,000 in value. The position offered is a permanent one with good prospects. Reply in first instance stating age, experience and salary expected to—

Quantity Surveyor,
A. J. Wait & Co. Ltd.,
Wellington Crescent, New Malden, Surrey.

BUILDER'S ESTIMATOR/SURVEYOR Required by old established medium sized firm in Ealing, experienced in new building work, alterations, maintenance, etc. Able to take charge from enquiry to final account.—Write stating age, experience and salary required to Box 2201, "The Builder."

JOINERY ESTIMATOR. An experienced JOINERY ESTIMATOR Required to handle building and housing estimating work.—Write full particulars to RUTHERFORD, GEAKE & CO., Ltd., Hanworth Trading Estate, Feltham, Middlesex.

SUPERVISOR/ESTIMATOR Required by leading Building and Civil Engineering Contractors, able to deal with small jobbing and maintenance work in Central London from enquiry to final account.—Applicants are invited to send full details to Box 2202, "The Builder."

ESTIMATOR, with ability to price all types of joinery. Required by Manufacturers, North-West. Excellent opportunity for person with initiative. Pension Scheme. Write full details of training and experience and state salary required.—Box 2204, "The Builder."

JOINERY/ESTIMATOR with experience in shipping work, architectural joinery, panelling, high-class cabinet making, etc. Excellent prospects for capable man trained in modern technics.—Apply stating age, experience, salary, etc., to Director, GREEN & VARDY, Ltd., 79 Essex-road, Islington, N.1.

THE MITCHELL CONSTRUCTION COMPANY, Ltd., invites applications for appointments as ASSISTANT ESTIMATORS at their Head Office, Wharf Works, Peterborough. Applicants should have had some experience in preparing Tenders, with previous experience as site engineer in all or any of the following: heavy reinforced concrete foundations and structures, industrial buildings, trunk roads and bridges, drainage and water mains. Permanent appointment entry into Superannuation Scheme arranged after 12 months' service.—Write in strictest confidence, giving full details of previous experience.

LESLIE & CO. LTD.,
require an

ESTIMATOR

sound knowledge of detailed price build up of labour and materials essential. This post offers a good opportunity, with a permanent position, yearly bonus and non-contributory staff pension scheme. Write giving full details of experience, age and salary required to the **Chief Estimator, Leslie & Co. Ltd., Peel Street, London, W.8.**

ESTIMATOR Required by progressive firm.—Write stating experience and salary required. Pension scheme and excellent prospects for suitable applicant. BAILEYS BUILDERS & CONTRACTORS, Ltd., 115a, Burlington-road, New Malden, Surrey.

ESTIMATOR (ASSISTANT). SCOTTISH SPECIAL HOUSING ASSOCIATION, Ltd., invite applications for this superannuable appointment in the Direct Labour Organisation. Applicants should possess a wide experience of competitive estimating for housing schemes, including multi-storey flats, and for roads and sewer construction. Salary scale £780-£1,135 per annum with placing for age on entry up to £990 at age 31.—Forms of application with full particulars of the post are obtainable from the Secretary, 15-21, Palmerston-place, Edinburgh, 12.

ASSISTANT ESTIMATOR AND SURVEYOR Required for old-established builders. Excellent opening for keen young man capable of dealing with varied work from enquiry to final account.—Write stating experience, age and salary required to F. MILTON & SONS, Ltd., Witley, Surrey.

BUILDING ESTIMATOR. Gilbert-Ash Ltd. are Requiring the services of a building ESTIMATOR (preferably between 30 and 40 years of age) for their Liverpool office.—Applications (which will be treated as entirely confidential) should furnish particulars of experience, age and salary required, and be addressed to "The Secretary," at 2 Stanhope Gate, London, W.1, and marked "Confidential."

EXPERIENCED SENIOR ESTIMATOR Required.—Write stating experience, age and salary required to F. & H. F. HIGGS, Ltd., 2 Herne Hill-road, S.E.24.

ESTIMATOR SURVEYOR Required, Middlesex-Surrey borders. Experienced in alterations and new works from enquiry to final account.—Write stating age, experience and salary required.—Box 2141, "The Builder."

ESTIMATOR-SURVEYOR Required to assist Manager of Small Works and Jobbing Department of a firm of Building Contractors 20 miles North of London. Candidates with experience in a similar position, who can follow up enquiries, measure, estimate and organise this class of work, should apply giving full particulars, stating age and salary required to Box 2142, "The Builder."

ESTIMATOR/SURVEYOR Required for medium-size contracts and smaller works, fully experienced in tendering from Bills of Quantities, taking-off and pricing from drawings and specifications, preparation of interim certificates and final accounts. Applications which will be treated in strict confidence should give full particulars of experience, qualifications, age and present salary to The Secretary, R. COSTAIN & SONS (LIVERPOOL), Ltd., Barlows-lane, Fazakerley, Liverpool, 9.

ESTIMATOR. Old-established firm of building contractors Requires an ASSISTANT ESTIMATOR (preferably between 28 and 35 years of age). Applicants should have a good knowledge of the basic principles of estimating and a sound knowledge of construction and quantities. Applications which will be regarded as strictly confidential should give details of age, experience, present salary and that required.—Box 2241, "The Builder."

ESTIMATOR/SURVEYOR Required for a medium-size firm of Building and Civil Engineering Contractors, able to do all estimating from the enquiry stage for Contracts up to £250,000. This position is permanent and will carry a good salary; pension scheme in operation.—Please apply in writing giving age, previous experience, salary required and when available, to the Managing Director, WALTER THOMPSON (CONTRACTORS) Ltd., Northallerton, Yorks. Tel.: 509 (2 lines).

GRANADA GROUP

require

HEATING AND VENTILATING ENGINEER

to assist in the preparation of designs for new installations in TV studios, theatres, office buildings, restaurants.

Preference given to qualified engineer 24—28 years old who has served an apprenticeship with heating and ventilating contractors.

Post based in London but involving some travelling.

Superannuation scheme.

Write details of age, experience and salary to:—

C. W. Sully, A.R.I.B.A., 149 Regent Street, London, W.1

ONE SENIOR ESTIMATOR

(Age 30/35)

For building contracts up to £100,000 in value. Only ambitious applicants anxious to progress further in their career are invited to reply. Offices in Central London. Bonus on results and non-contributory Pension Scheme. Reply stating age, experience, and salary range contemplated, to:

Box No. 2203
The Builder

OPPORTUNITY IN

THE PRECAST CONCRETE INDUSTRY

An established London firm specialising in the design, manufacture and erection of precast and prestressed concrete members and structures, embarking on an expansion programme, wish to appoint a first-class

ESTIMATOR/SURVEYOR

having experience of this class of work and capable of carrying progressive responsibilities for the Quantities and Estimating Division, including contract negotiations.

The appointment will be on generous terms, including participation in bonus, superannuation and insurance schemes, subject to a satisfactory probationary period.

Applications should be addressed to the "Managing Director", **Box 2239**, "The Builder" giving ful details of education, training and experience to date, age and salary required etc. which will be treated as strictly confidential.

BUILDER'S ESTIMATOR/SURVEYOR Required for all types of building, alterations and decorating works in North-West London area.—Please apply stating age, experience and salary required to Box 2261, "The Builder."

BUILDER'S ESTIMATOR and TAKER-OFF/DRAUGHTSMAN. Old established East London Company. Good salaries offered for these two vacancies.—Write giving full details, Box 2262, "The Builder."

CITY CONTRACTOR Requires ESTIMATOR, previous experience of pricing Bills of Quantities not essential, but must be capable of dealing with plans and specifications up to £30,000 in all types of alteration and new works.—Box 2257, "The Builder."

A VACANCY occurs for an ESTIMATOR/SURVEYOR for small City builders. Permanent position to develop for man of personality, tact and varied experience. Must be able to work and produce results on own initiative from enquiry to final account.—Box 2280, "The Builder."

ESTIMATOR Required for progressive firm of Shopfitters, able to handle enquiry to final account. Able to take sizes and submit drawings. Good salary and opportunity for right man.—Box 2304, "The Builder."

BUILDER'S ESTIMATOR Required for position in construction dept. of a multiple firm in London. 5-day week. Canteen facilities. Superannuation scheme. Apply in writing stating age, experience and salary required.—Box 2295, "The Builder."

PAINTING AND DECORATING CONTRACTORS' ESTIMATOR Required, London. Pension scheme in operation. Prospects of advancement.—Write fully to Box 2296, "The Builder."

DAVID F. WISEMAN & SONS, LTD.

PLUMBING CONTRACTORS

Require the services of a Young Man about 23 to 25, for their Birmingham office, to assist with estimating.

Must have good general knowledge of Plumbing materials, present-day costs and sources of supply. Excellent prospects.

Apply, stating age, experience and salary required, to

Secretary,
145, Conybere Street,
Birmingham, 12

ESTIMATOR with practical experience to assist Chief Estimator is required in the office of Islington Building Contractors. The post is progressive. Please write stating experience and salary expected.—Box 978, "The Builder."

PLUMBING. A vacancy exists in a London Plumbing and Heating Contractors' organisation for someone to take complete charge of the small-works department from estimate to final account stage of works up to and including £750. Opportunity for person with initiative, and does not require immediate supervision. Superannuation scheme, Saturday rota. Write stating age, experience, salary required.—Box 2157, "The Builder."

WORKS MANAGER Required for established London Shopfitting and Metal Working Group. Suitable for a competent man, who may be unable to progress in present similar position. Previous managerial experience and highest references essential. Pension scheme.—Write full details and salary category to Box 2158, "The Builder."

CONTRACTS MANAGER Required for West Wales area. Reply giving age, previous experience, salary required, and reference copies.—Box 2225, "The Builder."

E. J. LACY & CO. LTD.

STEELE ROAD, N.W.10 Elgar 3033/5

The following vacancies are available for men of ambition and ability requiring permanency in a Progressive and Expanding Company. Superannuation will be offered after probationary period of one year. Write in first instance stating details of training and experience, also Salary required.

JUNIOR CONTRACTS MANAGER
Age Group: 27-35 years.
Of good education and sound technical Training.
Car Driving Essential.
Hours: 8 a.m.—5.30 p.m.; 12 noon Saturdays.

GENERAL FOREMAN
Age Group: 35-45 years.
Of proved ability and requiring permanency.
Reconstruction on New Work £30,000—£100,000.

ASSISTANT GENERAL FOREMAN
Age Group: 25-35 years.
With basic practical trade experience, and good Technical Training.

QUANTITY SURVEYOR
Age Group: 25-40 years.
Experienced in site measuring and final accounts.

MANAGER Required for plumbing and hot water fitting department of medium size building contractors. Applicants should have had some experience in a similar capacity and be capable of preparing designs and estimates for small plumbing and heating systems.—Apply stating salary required to COULSON & SON, Ltd., 37, St. Andrew's-street, Cambridge.

CONTRACTS GENERAL MANAGER

An old-established and progressive firm of Building Contractors in the North West, with a substantial annual turnover, wishes to appoint a MANAGER to be directly responsible to the Board for major building and associated activities.

Candidates must have dealt successfully with contracts ranging from £50,000 to £1m. in value, and have knowledge and experience of modern building methods and management techniques in the industry, preferably including Planning, Cost Control and Work Study.

This is a new appointment and will be at Senior Staff level and will later offer an opportunity of a directorship to the man who proves his ability and has the necessary personal qualifications.

The preferred age range is 40 to 45, and a salary of about £2,000 is envisaged.

Applications, giving particulars of experience, qualifications, personal background and salaries earned, should be addressed to Urwick, Orr & Partners, Limited, 14 Brown-street, Manchester, 2, quoting reference CGM/1292 on the envelope.

AREA MANAGER

required by Builder with National Organisation to take charge of expanding activities in South Wales. Only fully experienced applicants with ability and drive, fully capable of organising a number of sites on own initiative, need apply. This is a permanent, progressive post. Pension scheme in operation. Car provided. Assistance with accommodation if required. Applicants should give in chronological order, age, training and experience and also salary required. Own staff notified. **Box 2205, The Builder.**

COMPETENT BUILDING MANAGER Required for subsidiary of Property Company engaged mainly residential conversions, Kensington and West End generally. Must be capable full charge, including estimating, buying, letting sub-contracts, etc. Salary and bonus or profits-sharing arrangement can be made.—Apply E. & R. THOMAS Ltd., 1-2 Hanover-st., W.1. (REGent 6268.)

GENERAL MANAGER Required to take complete charge of old-established builders' business in South-East London area. Age between 35 and 45. Commencing salary £1,250 p.a. Please state qualifications and previous experience.—Box 2297, "The Builder."

MANAGER Required for Wall and Floor Tiling Dept. Progressive position for experienced man.—HEATH FIREPLACES, Wandle-road, Beddington, Croydon: 7261.

PAINTING MANAGER

required

by large Midland building company to take charge of live painting and decorating department. Generous salary, car and superannuation to successful applicant. In strict confidence give brief particulars of experience and present salary to **Box 2207, The Builder**

REPRESENTATIVE Required by prominent specialists in the design and construction of suspended ceilings to contact Building Contractors in London and Home Counties with a view to expanding their business. Only applicants with experience, proved ability and established connections will be considered. Superannuated post.—Write full details of experience, age, remuneration required, etc., to STEEL BRACKETING & LATHING, Ltd., 3-8, Brigstock-parade, Thornton Heath, Surrey.

COURTNEY, POPE LIMITED

require

SHOPFITTING REPRESENTATIVES

Excellent opportunities exist for ambitious experienced technical representatives in progressive and expanding organisation. Previous selling experience, particularly in departmental store business, is essential. Applications with full details of experience, age and qualifications will be treated in strictest confidence and should be addressed to the Managing Director, quoting Ref. B/R

REPRESENTATIVE Required with live connections Architects and Local Authorities, etc. London and Home Counties to sell Painting and Decorating.—Box 2206, "The Builder."

SHOPFITTING REPRESENTATIVE Required by established London company, able and competent to handle all levels of enquiries and having established personal connection.—Write Managing Director, UNIVERSAL SHOPFITTING COMPANY (LONDON), Ltd., Lower Sydenham, S.E.26.

Technical Representative

for

PERMANITE LIMITED

NORTH WESTERN CONTRACTS

Applicants should have knowledge of built-up felt roofing and asphalt. Established connections with Architects, Quantity Surveyors, and Engineers, etc., essential. Good remuneration and prospects. Car provided. Pension scheme. Apply (in strict confidence) stating age, experience, and education, etc., to :—

Contracts Manager,
Permanite Limited,
Stanley Street,
Salford 3, Lancs.

REPRESENTATIVE Required by well-known Specialist Building Sub-contractors, London. Very good prospects. Write giving full particulars of experience and salary expected.—Box 2208, "The Builder."

REPRESENTATIVE already calling on Architects and Builders in Midlands Required to carry additional line on liberal commission.—Box 2298, "The Builder."

REPRESENTATIVE/SUPERVISOR

required

for Steel Decking and Built-Up Felt Roofing Department in large firm of specialist sub-contractors. Applicants should have sound technical knowledge and be of good appearance. Full particulars of Salary required to Box 2373, c/o Charles Barker & Sons Ltd., Gateway House, London, E.C.4.

PURCHASING CLERK (male, under 20) Required by Building Contractors. Canteen. Staff bonus. Salary according to experience.—BOVIS, Ltd., 1 Stanhope Gate, W.1. GROsvenor 8830.

BUILDER'S CLERK Required by sma'l Building Company near Portsmouth, must be keen and reliable worker. Estimating, ordering, costing, wages and typing, etc. Responsible for general office routine. Prospects of promotion to Manager to suitable applicant.—Reply giving details of age, experience and qualifications, if any, and salary required to Box 2209, "The Builder."

TYPIST and general office duties for Quantity Surveyors, W.C.1.—Experience, age and salary required to Box 968, "The Builder."

YOUNG MAN urgently required as ASSISTANT COST CLERK to established builders in West Central London. Some experience in similar capacity required.—Box 2210, "The Builder."

JOHN BOLDING & SONS, Ltd., Require a SENIOR CLERK, having experience of sanitary fittings, for the Contracts Department at their Head Office, Grosvenor Works, Davies-street, W.1 Excellent working conditions and prospects. Canteen. Pension Scheme, etc.—Apply to the Secretary (MAYfair 6617).

GENERAL ASSISTANT Required (25 to 35 years) to Managing Director of medium-sized old-established business. Applicant must have good technical knowledge of all sides of the business and be capable of supervision of contracts, quantities up to final accounts. Applicant with the necessary qualifications, drive and initiative could attain high executive position. Small house available.—Apply, stating age and whether married and forward details of education, technical qualifications and state salary required, to GEO. F. KIRK, Manor Works, Manor-road, Chesterfield.

COPY TYPIST. Busy Quantity Surveyors wish to get in touch with TYPISTS who will undertake to type copies of Bills of Quantities, Variation Accounts, etc., at home.—Apply Box 2143, "The Builder."

BONUS AND COST CLERK Required for building contract in Stepney. Write details of previous experience, age and salary required.—Box 2154, "The Builder."

PRIME COST AND WAGES CLERK Required by London firm of medium-size builders.—Apply in writing, stating salary required, to HOWARD & CO., 11/13 Broad Court, Bow-street, W.C.2.

CASHIER/WAGES CLERK, TIMEKEEPER AND COST CLERK Required for Motorway Contract, St. Albans By-Pass, Garston, near Watford. Must be fully experienced. Knowledge P.A.Y.E. and W.R.A., with two former appointments essential. Labour strength approximately 250.—Write age, experience and wage required in own handwriting, Secretary, CUEITTS FITZPATRICK SHAND, 455 Old Ford-road, London, E.3.

BUILDERS' CLERK Required for West End office. Costing and general office routine.—'Phone for appointment MAYfair 5217.

CLERK Required in office of pre-cast concrete manufacturers with offices near Kingston. Applicants should be about 25 years of age and preference will be given to persons with previous experience of the building trade. Knowledge of typing is essential. Excellent prospects for young man with ability and keen to make headway. Salary according to age and experience.—Applications to Box 2252, "The Builder."

BUILDERS' COST CLERK, male, experienced. Ability to work on own initiative and prepare accounts for jobbing works essential. Age about 25/30.—THOROGOOD AND SONS, Ltd., Bond-road, Surbiton.

CLERK (Male, 20-35 years) Required for Invoice and Materials Department of well-known Building Contractors. Knowledge of Building Materials essential. Pension scheme after satisfactory trial period. —Details of experience, age, etc., in writing to Office Manager, TERSONS, Ltd., 4, Dollis-park, Finchley, London, N.3.

COMPETENT CLERK-TYPIST Required by London Quantity Surveyors (Piccadilly area).—Details of experience, salary required, etc., to Box 2294, "The Builder."

FIRST-CLASS ACCOUNTS/COST CLERK Required by well-known firm of London Building and Civil Engineering Contractors able to prepare and price detailed Daywork Sheets, also to prepare Jobbing Accounts and Final Accounts for small contracts. Permanent and progressive position for successful applicant. Staff Pension Scheme and Profit-Sharing Scheme.—Write giving details of age, experience and salary required to Box 2299, "The Builder."

BUILDER'S CLERK to send our enquiries to Sub-Contractors and Suppliers for estimating, and assist in Cost and Order Departments.—Reply stating age, experience and salary required.—C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

BUILDER'S CLERK (Prime Cost), must be experienced and accurate. Accommodation may be available. Reply stating age, experience and salary required.—C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

SITE CLERKS Required for building contracts in London area. Experience in preparation of Wages Sheets, P.A.Y.E., W.R.A. essential; bonus calculating and labour costing an advantage. Inclusive salary of £750 per annum will be paid to the right men.—Write stating full career, details of age, experience and present salary to Personnel Manager, WATES, Ltd., 1,258-60, London-road, Norbury, S.W.16.

COMPETENT SECRETARY SHORTHAND TYPIST Required. (Simple book-keeping.) Surveyors' Dept., Charitable organisation, West End; 5-day week, 8.45 a.m. to 5 p.m.; lunch club.—Write stating age, experience and salary required to Box 2330, "The Builder."

A NORTH OF ENGLAND MULTIPLE RETAIL ORGANISATION

(50—100 Branches)

desires to appoint a young man 27—36 years of age, to assist in its Property Maintenance and Planning Department. Applicants should have architectural and/or building constructional experience with ability to interpret drawings and documents, as he will be required to supervise and co-ordinate contractors in various parts of the country. The position will be pensionable. Applications, in full confidence, should state particulars of experience, qualifications, age and salary required.

BOX No. 2144

BUILDER'S ASSISTANT Required for well-established company, S.W.3 area. Must be competent to estimate for and control small works.—Apply giving brief details of previous experience to Box 2220, "The Builder."

BUILDER'S ASSISTANT Required. Preparation bills of quantities, working and detail drawings, book-keeping, general clerical work. Small business, country district, Devon. Apply own handwriting giving details of experience and salary required.—Box 2221, "The Builder."

CONTRACTS ASSISTANT Required, capable of taking-off and scheduling materials from drawings and Bills of Quantities.—Apply in writing, giving age, qualifications, experience and salary required to M. HOWARD (MITCHAM), Ltd., Wandle House, London-road, Mitcham, Surrey

A leading National Building & Civil Engineering Company has vacancies for two first class

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Applicants should preferably be craft trained men between the ages of 25 and 45 and must have held responsible supervisory appointments on good class building contracts.

Technical qualifications are desirable but not essential.

Applications, which will be treated in confidence, should be addressed to

Box No. 2281 The Builder

BUILDING AGENT Required for South Wales contract.—Apply: Building Division, MESSRS HOWARD FARROW LIMITED, Russell Parade, Golders Green-road, London, N.W.11.

1st Class Building Agent required to supervise high class work on small contracts. Top salary with car provided to right man. Headquarters N/Kent. Box No. 2254 "The Builder."

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Required for large housing contracts in London and Home Counties area. Capable of taking full control. Keen and capable men are offered permanent and progressive appointments with generous salary and pension scheme after qualifying period.—Written applications in the first instance to Dept. CH, CARLTON CONTRACTORS Ltd., Ashley-road, Epsom, Surrey.

Experienced Building and Civil Engineering

AGENTS

required for large firm of Building and Civil Engineering Contractors with contracts in all parts of the British Isles. These positions will offer chances of advancement, and only applicants seeking such opportunities should apply to

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SITE AGENT Required for large factory contract near Reading. Applicants must be able to run site office, keep all records, progress charts, measure variations and agree valuations as the work proceeds and be thoroughly capable of organising and running a site office.—Apply, giving full particulars of experience, contracts carried out, references and when free to Box 2253, "The Builder."

SUB-AGENTS AND GENERAL FOREMEN with ability and good site experience Required for building contracts in Wales and the South West of England. The Company has an established policy of employment security and men who prove themselves can expect advancement and permanent pensioned employment. Full mobility essential.—Apply in writing stating age and experience to Personnel Manager (Ref. S.W.A.3), JOHN LAING AND SON LIMITED, London, N.W.7, Berks.

KYLE, STEWART (CONTRACTORS), Ltd., Require first class AGENTS and GENERAL FOREMEN for Office Block Contracts in Greater London area. Must possess sound knowledge of R.C. Construction, labour and mechanical plant management. Good salary and participation in the Company's Bonus and Pension Schemes offered to successful applicants.—Apply in writing to Managing Director, Ardshiel House, Empire-way, Wembley-park.

LONDON CONTRACTS

Staff required by old-established firm of Contractors for works between £500,000 and £1,000,000:—

1. **SENIOR AGENTS/GENERAL FOREMEN experienced in R.C. work, age 40-50, annual remuneration up to £1,500 according to ability.**
2. **SITE ENGINEERS.**
3. **BONUS SURVEYORS.**
4. **TIMEKEEPERS.**

Details of qualifications and experience to

Box No. 2211, The Builder

LEADING manufacturer of Vinyl Flooring seeks services of first-class LIVE AGENTS based in Shropshire, Norfolk/Suffolk, Cornwall, Northern Ireland, Isle of Man, Channel Isles, North Wales, Inverness, Dundee, Ayr, Galashiels.—Box 2212, "The Builder."

GENERAL FOREMAN Required for flat and housing contracts, Surrey, Sussex and Hampshire areas.—Write giving full particulars of past experience.—Box 970, "The Builder."

DECORATING SUPERVISOR Required for progressive decorating company. Job bonus arrangement. Experience necessary in supervising contracts and labour.—Write fully, age, experience, etc., Box 949, "The Builder."

GENERAL FOREMAN Required for contracts in Berks, Bucks and Oxon area. Position is permanent with good opportunities. — Write stating full details to Box 2213, "The Builder."

SUPERVISOR Required by London Plumbing Contractors. Good position for person capable of working on own initiative. Superannuation Scheme available. Saturday rota.—Write stating full details age, experience, salary required, Box 2159, "The Builder."

GENERAL FOREMAN Required for a contract in the West Country with experience and drive, well versed in all trades and who can obtain results with a minimum of supervision. Details please of work executed and when available.—Box 2214, "The Builder."

GENERAL FOREMAN Required for school repair and renovation contract in S.E. London (about £30,000). Must be efficient in site organisation and site records. Good salary and bonus. Permanent position available for man of proved ability and drive. —Write stating experience to COURTNEY & FAIRBAIRN, Ltd., 377 Albany-road, Camberwell, S.E.5.

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One of the North-East's foremost Timber Importers, established for many years, is seeking to appoint Superintendent-Foreman to take charge of Sawmill and yard. Successful applicant must have good knowledge of Timber and economic conversion and machining as applied to one or all of the following trades—Sawmilling, Building, Carpentry, Joinery, or Shipyard work. Salary and future prospects commensurate with ability offered to man of initiative and drive, capable of directing staff. Apply in strictest confidence, giving details of age, previous experience, etc., to General Manager, Box No. 2235, "The Builder"

Specialist Reinforced and Prestressed Concrete Contractors have vacancies for first class site foremen. Applicants must be thoroughly experienced in modern concreting techniques and have an understanding of planning. There are vacancies for experienced practical foremen, and for young Engineer/Agents who wish to advance in this section of the industry. Apply by letter only to: The General Manager, Pierhead Engineering Division, Faggs Road, Feltham, Middlesex.

EXPERIENCED CONTRACTS SUPERVISOR Required to supervise contracts in London area, must have had successful results as General Foreman over number of years. Age 45-55. Car driver.—Apply in writing, RICHARDSON, Herbert House, Slade-green, Erith, Kent.

FIRST class GENERAL FOREMAN for multi-storey reinforced concrete municipal flat contract in the City, must be experienced in this type of construction and able to work to progress schedule. Top wages.—Apply in writing, RICHARDSON, Herbert House, Slade-green, Erith, Kent.

FIRST-CLASS GENERAL FOREMAN Required for high-class Contract, Croydon. Experience in reinforced concrete essential.—Apply in writing, giving details age, contracts executed and salary required to GRACE & MARSH, Ltd., New Bridge Works, Waddon, Croydon.

GENERAL FOREMAN Required for London contract. Must be first-class man, fully experienced in modern mechanical methods, reinforced concrete, etc. £1,000 p.a. upwards and permanency for right man.—State full details of training, experience and age to Box 2215, "The Builder."

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GENERAL FOREMAN Required for good quality housing. Good opportunity for energetic and intelligent man with sound knowledge in expanding organisation. Salary £18/£20 per week.—Box 2226, "The Builder."

GENERAL FOREMAN, experienced in Local Authority housing and flats in the London area.—Apply in writing, giving age, trade, experience and salary required, to M. HOWARD (MITCHAM), Ltd., Wandle House, London-road, Mitcham, Surrey.

CONTRACTS SUPERVISOR Required by Concrete Structural Engineers. Past control of in situ flooring and R.C. frames essential. Knowledge of pre-cast erection desirable. Position is permanent with a pension scheme after probationary period.—Write giving age, experience and salary required to Box 2236, "The Builder."

GENERAL FOREMAN Required by progressive East London Contractors for medium-sized industrial contracts. Permanent position for the right man, preferably with experience of R.C.—Box 2145, "The Builder."

GENERAL FOREMAN Required by medium-size East London Contractors. Must be capable of controlling several small contracts. Current driving licence essential. Permanent position to right man.—Box 2146, "The Builder."

GENERAL FOREMAN Required for Flats and Houses in West Middlesex area. Applicant must have had experience in this class of work and able to use dumpy level, etc.—Write stating age, experience and salary required to G.H.C., 55 The Mall, Ealing, W.5.

CONTRACTS SUPERVISOR Required, age not exceeding 40. Must possess first-class knowledge and experience of handling all types of Contracts from Housing Estates to Multi-storey development. A high standard of administrative ability essential.—Apply in writing, PROWTING, Ltd., 127 High-street, Ruislip, Middlesex, stating age, experience and salary required.

GENERAL FOREMAN Required for building firm Woodford, Essex.—BUCkhurst 6688.

GENERAL FOREMAN Required by small but progressive firm of builders. Excellent opportunities for man experienced in housing. Permanent position.—Write giving details of age, experience and salary required to LAURENCE WEAVER LIMITED, 45 Ledgers-road, Slough.

EXPERIENCED FOREMAN Required for medium-sized building estate in Sussex.—Send written particulars in first instance to ELLSWORTH ESTATES, Ltd., 37 Bury-street, St. James's, S.W.1.

GENERAL FOREMAN Required for Flat Construction St. Albans. Good salary for right man. Fully experienced persons only need apply.—Box 2263, "The Builder."

REQUIRED, GENERAL WALKING FOREMAN for small contracts works in the London area.—Box 2256, "The Builder."

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FIRST-CLASS FOREMEN Required for Specialist Civil Engineering Contractors. Most of the work will be near the London area and will include pre-stressed and post-tensioned work.—Apply Box 2259, "The Builder," giving full particulars, including age, experience, salary required.

WALKING FOREMAN (C. & J.) Required by North London Builder, maintenance and small contracts, London area. State age, qualifications, experience and wages required.—Box 2278, "The Builder."

GENERAL FOREMEN Required for the Home Counties.—Write to LAVENDER McMILLAN (CNTRS.), Ltd., 54 Cheam Common-road, Worcester Park, Surrey.

GENERAL FOREMAN for progressive North Kent Contractor, preferably C. and J., for contracts over £50,000. State experience, age and salary, all replies acknowledged and treated confidentially, Box 2329, "The Builder."

GENERAL FOREMAN Required for Factory Extension, West London area.—Write, stating age, experience and salary required, to PERRYS (EALING), Ltd., 75 Uxbridge-road, Ealing, W.5.

CONTRACT SITE SUPERVISORS Required by progressive firm of Building Contractors engaged on schools, housing, roads and sewers, southern part of England. Applicants must already hold similar position, be accustomed to controlling several contracts running concurrently, possess first class organising ability, able to display leadership, produce work to strict schedules, and willing to travel. Position is permanent and pensionable to suitable applicant.—Apply stating age, experience, salary required, when available to Box 2300, "The Builder."

FOREMEN Required, fully experienced reinforced concrete, R.C. frame buildings, hollow tile floors, etc., must possess necessary drive to get out on cost; with good workmanship. Permanent position for right men. To operate mainly in Greater London area.—Apply Box 2301.

GENERAL FOREMAN Required by old established Building and Civil Engineering Contractors for work in South of England. Must be experienced in foundation and quality controlled concrete work and have ability to produce results on time.—Apply Box 2302, "The Builder."

FOREMAN PAINTERS.—HARRODS, Ltd., have vacancies for FOREMEN PAINTERS. First class experience essential. Permanent, pensionable positions.—Apply in writing, or before 11 a.m. to the Staff Manager, 42, Hans-crescent, S.W.1.

FIRST class JOINER/MACHINIST, take full charge small shop and set out. Fully equipped electrically driven machinery. Good class work only.—PHILLIPS, Hall-place, W.2. PAD 0054.

OVERSEAS APPOINTMENTS

Prepaid rate, 24 words, 7/6; additional 6 words, 1/6. Box number, including Forwarding Replies, 1/6.

EXPERIENCED QUANTITY SURVEYOR Required for work in West Africa for measuring, pricing and agreeing Final Accounts, etc. Accommodation and transport provided, also free passages.—Reply stating age, experience and when available, Box 976, "The Builder."

VACANCY exists in West Africa for an EXPERIENCED SURVEYOR to measure works in hand, price and agree final accounts, assist in preparation of estimates and other duties. Good salary. Accommodation and transport provided, free passage out and home. Eighteen months' tour.—Reply giving details of experience, when available, age and whether married or single.—Box 940, "The Builder."

QUANTITY SURVEYOR Required for about two year appointment in Persian Gulf where no married accommodation is available. Must be professionally qualified and should have experience of arranging rates with contractors. Work also involves usual site measurement and certification. Project is marine and includes considerable tonnage of structural steel and steel piling. Applicant will be required to work in London office for three or four months to familiarise himself with the papers before proceeding overseas. Optimum age 35. Salary about £2,000 but according to age and experience.—Apply in writing to Staff Officer, RENDEL, PALMER & TRITTON, 125, Victoria-street, London, S.W.1.

ASSISTANT RESIDENT QUANTITY SURVEYOR Required in Middle East. Bachelor preferred. Salary and allowances £1,300-£1,600 per annum, according to capabilities and experience. Free accommodation.—Reply, stating age and experience, to Box 974, "The Builder."

TAYLOR WOODROW SERVICES, Ltd., Require SENIOR AND ASSISTANT QUANTITY SURVEYORS. Applicants should be prepared to work for the Taylor Woodrow Group overseas, after serving an initial period in U.K. Please write in detail to Personnel Manager, Western House, Western-avenue, London, W.5, or 'phone PERivale 6641.

SITE STAFF—INDIA

Applications are invited for the following positions on a major steel works contract in India:—

BUILDING FOREMAN
for finishing trades and in particular plumbing (Ref. W.38).

CLERK OF WORKS
with experience on heavy civil contracts to reinforce inspection department (Ref. W.36).

Salaries are in excess of £2,000, tax free, and this is subject to further site bonus. Living accommodation is excellent but on a bachelor basis. Tours are for 18 months to 2 years. Write with relevant information, quoting appropriate reference to:—

The Personnel Administrator,
THE CEMENTATION COMPANY, Ltd.,
20 Albert Embankment,
London, S.E.11.

TAYLOR WOODROW SERVICES, Ltd., Require GENERAL FOREMAN for building and civil engineering works overseas. Applicants will be required to work for the Taylor Woodrow Group in the U.K. pending overseas posting. Please write in detail to Personnel Manager, Western House, Western-avenue, London, W.5.

QUALIFIED QUANTITY SURVEYOR, 31, seeks position in Sydney, Australia. Extensive experience of N.S.W. mode of measurement, Australian prices and building methods, etc.—Box 2172, "The Builder."

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SERVICES OFFERED

Minimum 7s. 6d. (24 words)
Each additional 6 words 1s. 6d. Box number, Including Forwarding Replies, 1s. 6d.

THE SITE SURVEY COMPANY
BLACKHEATH, S.E.3. Tel.: LEE Green 7444-5
Fully equipped to undertake urgent surveys in any part of the country and abroad. Specialists in ½" scale detailed surveys for extensive city development areas.

QUANTITY SURVEYOR with 20 years' experience offers services to the profession only, evenings and weekends. Taking-off 10s. and working-up 6s. 9d. per hour.—Box 2161, "The Builder."

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QUALIFIED QUANTITY SURVEYORs with own Central London Office offer assistance to the profession.—Tel.: CHAncery 4246/7.

BUILDERS' ESTIMATES accurately prepared. Also Surveys, Valuations and Final Accounts. Over 30 years' reliable service. Moderate terms.—SURVEYOR, 73, New Bedford-road, Luton, Beds.

ESTIMATES. No Result—No Fee. Building, Roads, Sewers, Public Works, Civil Engineering, done by expert. Integrity assured.—'Phone: Mal 8640 or write 42, Coombe-road, New Malden, Surrey.

CONTRACTOR'S ESTIMATES. Building and Civil Engineering; competitive pricing at current rates.—AMALGAMATED BUILDING SERVICES, 170, Bridge-road, Chessington. 'Phone: Epsom 4255.

BUILDERS' ESTIMATES accurately prepared from Bills of Quantities, plans and specifications. Prompt, efficient service.—VICTOR H. FERN, 21, Tettenhall-road, Wolverhampton. Telephone Wolverhampton 24406/7.

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INDEX TO "THE BUILDER" ADVERTISERS AND GUIDE TO BUYERS

Abelson & Co. (Engineers), Ld. 136
Abix (Metal Industries), Ld. 117
A.C.E. Machinery, Ld. 107
Acrow (Engineers), Ld. 85
African Building Board Corporation 80
Aidas Electric, Ld. 16
AIDU Equipment Co., Ld. 133
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Bilston Foundries, Ld. 67
Black Sheathing Felt Campaign 8
Blagg & Johnson, Ld. 109
Bostwick Gate & Shutter Co., Ld. 1
Boulton Tubular Structures, Ld. 134
Boyle, Robert, & Son 134
Braby, Frederick, & Co., Ld. 48
British Constructional Steelwork Association 79
British Cork Mills, Ld. 116
British Equipment Co., Ld. —
British Geon, Ld. 70
British Hoist & Crane Co. 106
British Road Services —
British Visqueen, Ld. 130
Briton Brush Co., Ld. 32
Broad & Co., Ld. 578
Broads Manufacturing Co., Ld. 108
Brown, N. C., Ld. 133
Brunnings (Holborn), Ld. 132
Bryants, Ld. 133
Bryce, White & Co., Ld. 83
Builder Bookshop 136
Builders Estimating Service, Ld. 143
Burn Bros. (London), Ld. 38
Byrd, A. A., & Co., Ld. 87

Contracts 87
C. & M. Engineering Co., Ld. 134
C. & S. Construction Co. 123
Calders, Ld. 1
Campbell Gray, Ld. 134
Campbell Horne & Co., Ld. 121
Canal Joinery Co., Ld. 130
Cape Building Products, Ld. 78
Carden Heating & Fireplace Co. 80
Carlisle Plaster & Cement Co. 68
Caswell Cranes & Erection, Ld. 135
Catesbys —
Cattle, R., Ld. 56
Cayless Bros. 132
Cement Marketing Co., Ld. 20
Cementation Co., Ld. 44
Chalmer, E. 145
Chamberlain Plant, Ld. 99
Chaseside Engineering Co., Ld. —
Chimneys, Ld. 116
CIBA (A.R.L.), Ld. 6
Clark, James, & Eaton, Ld. 64
Clements, E. —
Clifton, L., & Sons, Ld. 132
Clodol Industries, Ld. 18
Cloke, Geo. E., Ld. 117
Coburn Engineers, Ld. 19
Cole, E. R., Ld. 98
Coleta, Ld. 106
College of Estate Management 137
Colt Ventilation, Ld. 4
Colt, W. H. (London), Ld. 1
Concrete, Ld. 65
Consolidated Metal Co., Ld. 104
Contractors Services, Ld. 135
Cooke, J., & Son (Hudd.), Ld. 121
Cooper, H. W., & Co., Ld. 109
Cope & Co., Ld. 123
Cousins Printing Service 132
Cox & Danks, Ld. 112
Cox, H., & Sons (Plant Hire), Ld. 135
Cox, Peter, & Partners, Ld. 123
Cradle-Scaff, Ld. 116-123
Crittall Manufacturing Co., Ld. 29

Damp-proofing, Ld. 124
Danckaerts Woodworking Machinery, Ld. 146
Dandridge, Arthur F., Ld. 135
Decorative Painting Contractors, Ld. 1
De Gay Flooring, Ld. 119
Dex Industries, Ld. 133
Dickinson, George, & Co., Ld. 85
Doe, Ernest, & Sons, Ld. 105
Dohm, Ld. —
Douglas Hire Co., Ld. 135
D.S.P. Telephones, Ld. 134
Dussek Bitumen & Taroleum, Ld. 51

Eastwoods Sales, Ld. 103
Edmonds 1
Edwards, F. J., Ld. 134
Elgood, E. J., Ld. 119-120
Ellis School of Building 137
Elstree Engineering Services, Ld. 60
Essex Steel Scaffolding Co., Ld. 578
Esso Petroleum Co., Ld. 94
Evode, Ld. 5-122
Excel Asphalte Co., Ld. 115
Expandite, Ld. 115-116-118-121-136

Fablon, Ld. 75
Falkus Bros., Ld. 68
Farmer, S. W., & Son, Ld. 14
Farrar, E., Ld. 120
FEB (Great Britain), Ld. 7
Federation of Master Builders 578
Felts & Damp-courses, Ld. 14
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Hattersley Bros., Ld. 100
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Hirschhorn, E., & Co., Ltd. 115
Housden, G. & H. 136

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London Ass. of Builders' Foremen & Clerks of Works 138
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Morgan, Baines & Frost —
Morgan Hoists 133
M.S.J. Fencing Contractors 118
Mullen & Lumsden, Ld 64

Natural Asphalte Mineowners & Manufacturers Council —
Negus, W. & M., Ld. 578
Nelson & Co. —
Neolith, Ld. 46
Neonore 133
New Stone & Restoration, Ld. 123
Newman & Watson, Ld. 1
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Nicoll, Dawson & Humphries, Ld. 116-122-135
Nordia 40
Northarc Organisation 123
Novobord (UK), Ld. —

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Oddi Asphalte 115
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Podmore Works 132-133-134
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Portasilo, Ld. 58
Potter Rax, Ld. 13
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Purimachos, Ld. 102

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